

Yellow and Red Supergiants in the Large Magellanic Cloud

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ABSTRACT

Due to their transitional nature, yellow supergiants provide a critical challenge for evolutionary modeling. Previous studies within M31 and the SMC show that the Geneva evolutionary models do a poor job at predicting the lifetimes of these short-lived stars. Here we extend this study to the LMC while also investigating the galaxy's red supergiant content. This task is complicated by contamination by Galactic foreground stars that color and magnitude criteria alone cannot weed out. Therefore, we use proper motions and the LMC's large systemic radial velocity ($\sim 278 \text{ km s}^{-1}$) to separate out these foreground dwarfs. After observing nearly 2,000 stars, we identified 317 probable yellow supergiants, 6 possible yellow supergiants and 505 probable red supergiants. Foreground contamination of our yellow supergiant sample was $\sim 80\%$, while that of the red supergiant sample was only 3% . By placing the yellow supergiants on the H-R diagram and comparing them against the evolutionary tracks, we find that new Geneva evolutionary models do an exemplary job at predicting both the locations and the lifetimes of these transitory objects.

Subject headings: supergiants — stars: evolution — galaxies: stellar content — galaxies: individual (LMC) — Magellanic Clouds

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1. Introduction

As a massive star reaches the end of its life, it eventually exhausts its hydrogen supply and begins burning helium, a phase that lasts for only $\sim 10\%$ of the massive star’s lifetime. In many cases, it has now become a mid- to late-type supergiant. In this paper we focus on the cooler of these supergiants within the Large Magellanic Cloud (LMC): the yellow supergiants (YSGs) and the red supergiants (RSGs).

In comparison to the $\sim 3,000$ un-evolved OB stars more massive than $20M_{\odot}$ in the Small Magellanic Cloud (SMC), Neugent et al. (2010) found only 176 YSGs, a number complete to a few percent. This rarity is due to the transitional nature of YSGs: they represent a short phase within a massive star’s life as it passes from the blue side of the Hertzsprung-Russell diagram (HRD) to the red supergiant stage or from the red back to the blue. However, their rarity only boosts their importance when testing current stellar evolutionary theory since the evolutionary model’s ability to predict the locations and numbers of these short-lived stellar objects on the HRD provides a crucial test. Previous studies of YSGs in the SMC (Neugent et al. 2010) and in M31 (Drout et al. 2009) show that the Meynet & Maeder (2005) Geneva evolutionary models overestimate the lifetimes of YSGs by large factors. Reliable evolutionary tracks affect not only the studies of massive stars, but the usefulness of population synthesis codes such as STARBURST99 (Leitherer et al. 1999, Vazquez & Leitherer 2005), used to interpret the spectra of distant galaxies.

Testing the evolutionary models by identifying a complete sample of supergiants within the LMC is complicated by foreground dwarf contamination. While this issue is pertinent when identifying both yellow and red LMC supergiants, the number of foreground stars in the appropriate color and magnitude range is much greater for LMC YSGs than for RSGs. This is because a red dwarf would have to be very close by to be in the same magnitude range, and the majority of these near-by dwarfs can be eliminated using proper motion cut-offs. Figure 1 shows the expected LMC foreground contamination primarily by yellow and red disk dwarfs as predicted by the Besançon Milky Way models (Robin et al. 2003) using the same area, proper motion cutoff and magnitude and color criteria as we use when defining our sample (see §2). Since evolutionary considerations suggest we will find many more RSGs than YSGs within the LMC, the contamination of YSGs will be much greater. In fact, Massey & Olsen (2003) found their RSG foreground contamination (without a proper motion cut-off) to be 11% in the SMC, while Neugent et al. (2010) found a contamination closer to 65% when looking at SMC YSGs. We plan to circumvent this issue by determining the radial velocities of all of our observed supergiant candidates since there will be minimal overlap between the radial velocities of LMC and Milky Way members. Further details will be discussed in §3.

After identifying a complete sample of LMC YSGs, we will be able to test the Geneva evolutionary models observationally by comparing the relative numbers of supergiants as a function of luminosity. We’ve done this for the low metallicity SMC ($\log \frac{Q}{H} + 12 = 8.1$; Russell & Dopita 1990) and for the high metallicity M31 ($\log \frac{Q}{H} + 12 = 9.1$; Zaritsky et al. 1994) and here we extend this study to RSGs while investigating the LMC’s intermediate metallicity of $\log \frac{Q}{H} + 12 = 8.4$ (Russell & Dopita 1990). In addition, we have at our disposal a new set of Geneva evolutionary models to test.

We begin this paper in §2 by describing our observation and reduction procedures. In §3 we discuss how we separated foreground stars from our LMC yellow and red supergiants and determined LMC membership. In §4 we examine both our contamination and completeness before, in §5, putting the stars on the HRD and testing the current Geneva evolutionary models. Finally, in §6 we summarize our findings and describe future goals.

2. Selections, Observations and Reductions

2.1. RSG and YSG Candidate Selections

The YSG and RSG LMC candidates were initially selected using the USNO CCD Astrogaph Catalogue Part 3 (UCAC3). We first chose stars within the LMC’s visible disk by including those within a 3.5° radius centered at $5^h15^m20^s -69^\circ20'10''$ (J2000). We then attempted to weed out foreground stars by excluding those with absolute proper motion values greater than 15 mas year^{-1} in α or δ . Finally, we used the UCAC3 quality codes to remove possible galaxies, clusters and double stars.

To select a sample with appropriate magnitude and color ranges for both YSGs and RSGs, we relied on the stars’ 2MASS photometry (Skrutskie et al. 2006). To select YSGs, we followed the procedure described in Neugent et al. (2010) for the SMC. Our goal was to be complete down to $12M_\odot$ after allowing for the different distance to the LMC. Using a T_{eff} range of $4800 - 7500 \text{ K}$, we used the (older) Geneva evolutionary tracks (Maeder & Meynet 2001) and the $J - K$ colors of Kurucz’s (1992) ATLAS9 atmosphere models to define K magnitude limits as a function of $J - K$ for a $12M_\odot$ YSG. When selecting RSGs, we were concerned about potential contamination by intermediate-mass asymptotic giant branch stars since they overlap in luminosity with RSGs (see Brunish et al. 1986). Therefore, we weren’t complete down to as low a mass for the RSGs as we were for the YSGs and simply defined a flat K magnitude cut-off. The color selection criteria of both the YSGs and RSGs candidates is shown in the color-magnitude (CMD) Figure 2. After this, we ended up with 2187 YSG candidates and 1949 RSG candidates.

2.2. Observations

All data were collected using the Cerro Tololo 4-meter telescope and Hydra, a 138 fiber multi-object spectrometer with a $2/3^\circ$ field of view. Before observing, we matched the $2''$ diameter fibers to specific YSG and RSG candidates. Higher priority was given to the YSG candidates since foreground contamination is more likely within their magnitude and color ranges. Additionally, fields with the most new targets were assigned higher priorities so if (when) bad weather struck or a mechanical glitch occurred, it was clear which fields should be observed first.

Observations spanned over a clear eight night run covering (UT) 2011 January 18-25. (In addition, we used data collected in 2009 October described by Neugent et al. 2010). We used the KPGL-D grating and OG 515 blocking filter in order to observe the 7700-9200 Å region, centered on the Ca II triplet ($\lambda\lambda 8498, 8542, 8662$), that we intended to use for radial velocities. The set up was the same as that used for the SMC YSG project (Neugent et al. 2010). This achieved a spectral resolution of 2.6 Å (3 binned pixels). Each field was observed for three consecutive exposures of five minutes each, followed by a short exposure of a HeNeAr lamp for wavelength calibration, and a projector lamp exposure obtained for flat fielding. We also obtained dome flat exposures during the late afternoons on some days with the fibers configured into “a great circle”. Additionally, a series of bias exposures were obtained each night. We observed five Geneva radial-velocity standard stars (HD115521 - M2III, HD42807 - G2V, HD6655 - F8V, HD83516 - K0III, HD84441 - G0III) for use as cross-correlation templates. These stars were observed on multiple occasions during the run, with at least several standards observed each night for a total of 24 exposures.

Overall, we observed 64 fields for a total of 1528 (70%) unique YSG candidates and 865 (44%) unique RSG candidates. Additionally, four fields were observed twice and a few stars were assigned to multiple fields providing us with 156 YSG candidates and 23 RSG candidates observed more than once. Figure 3 shows the locations of the observed fields and candidates.

2.3. Reductions

We overscan-subtracted and trimmed our data by first removing a scalar value determined from the overscan columns, and then trimming off the portion of the image containing the overscan columns. We additionally removed any left-over bias structure by subtracting

an averaged bias. The IRAF¹ task “dohydra” was then used to extract, flat-field, and wavelength calibrate the spectra. After some investigation we decided to use the dome flats as our flat-fields rather than the projector flats. Although either would remove the pixel-to-pixel variations, the dome flats did a better job of removing the fiber-to-fiber variations, as the illumination of the projector flats was much less uniform. Sky subtraction was provided by preselected “sky” fibers which were then averaged for each field after removing highly deviant results. Finally, the three spectra for each star were combined after rejecting bad pixels using IRAF’s “avsigclip” algorithm.

After examining the spectra, we found that 69 (4%) of the candidate YSGs and 343 (59%) of candidate RSGs we assigned to fibers yielded nothing but sky. While 4% is understandable (a few fibers had low transmission), 59% is much larger than expected. However, plotting the $J - K$ values of these 343 “invisible” candidate RSGs against K immediately yielded the explanation. RSGs very rarely have a T_{eff} lower than 3500 K, which corresponds to $J - K = 1.2$. But a glance at Figure 2 shows that many of our candidate RSGs had $J - K$ values much larger than 1.2. We were gratified to discover that most of our “invisible” RSGs (93%) fell in this region of large $J - K$ values. These cannot simply be spurious sources, as they have both measured proper motions from the UCAC3 *and* 2MASS photometry. Indeed, as we discuss in §5.2, there are many stars in this region of the CMD for which we did obtain spectroscopy and confirm membership; these show strong evidence of being highly dusty objects, deserving future followup². After removing these objects, only 3% of our RSG candidates yielded nothing but sky.

¹IRAF is distributed by the National Optical Astronomy Observatory, which is operated by the Association of Universities for Research in Astronomy (AURA) under cooperative agreement with the National Science Foundation.

²Note that the fainter and more heavily reddened of these will indeed be undetectable in our exposures, which are basically in the I band. Consider a RSG with $T_{\text{eff}} = 3800$ K (typical of M0 I’s) and hence intrinsic colors of $(J - K)_0 = 1.0$, $(V - K)_0 = 4.0$, $(V - I)_0 = 1.8$ (Levesque et al. 2006), and $V_0 = 13.5$. With the normal amount of LMC reddening, $E(B-V)=0.13$ (Massey et al. 1995), we expect the star to have $V \sim 14.0$, $K \sim 9.6$, and an I magnitude of about 12.0. However, if the star has a circumstellar dust shell resulting in $J - K = 1.8$, then $E(J - K) = 0.8$ and hence $A_V = 4.9$ mag, assuming the dust follows a normal reddening law (i.e., Table 6 of Schlegel et al. 1998). The star will be 3 mag (15 times) fainter at I in the spectral region where we are observing than the normal stars for which we obtained good data, and be at the faint end ($K \sim 10.1$) in Figure 2.

3. Determining LMC Membership

Armed with spectra of nearly 2000 stars, it was time to determine which ones are actual LMC supergiants. This question is most pertinent for the YSGs because of the large foreground contamination expected. In the following section we describe how we used the stars’ radial velocities to weed out the foreground dwarfs from the LMC supergiants.

3.1. Radial Velocities

As mentioned earlier, radial velocities are the key to separating foreground dwarfs from YSGs. The LMC has an average radial velocity of 278 km s^{-1} (Richter et al. 1987) with a rotational velocity of a few 10s of km s^{-1} superimposed upon that (Kunkel et al. 1997, Kim et al. 1998). Thus, stars in the LMC will have radial velocities centered around this value, while stars in our own Milky Way will have radial velocities centered around 0 km s^{-1} with a spread that we don’t expect to overlap with the velocities of LMC stars. Further details will be discussed in §4.

To determine the radial velocities, we used the spectra of our observed radial velocity standards. Our wavelength range of $7700 - 9200 \text{ Å}$ included the Ca II triplet ($\lambda\lambda$ 8498, 8543, 8662) which is known to be strong over a large temperature regime (which conveniently includes the temperature regime of YSGs, yellow dwarfs, and RSGs). Before the velocity calculations, we normalized the spectra using a 9th order cubic spline and subtracted 1.0 to remove the continuum. All velocity calculations were done using IRAF’s cross-correlation package “fxcor.” Cross-correlating the radial velocity standards against each other using a wavelength range surrounding the Ca II triplet ($8400 - 8700 \text{ Å}$) resulted in small uncertainties of $\sim 1 \text{ km s}^{-1}$. We were then able to cross-correlate our candidate spectra against the standards using the same wavelength range.

As Neugent et al. (2010) found with YSG candidates in the SMC, many of our observed LMC candidates were sufficiently early that the Ca II triplet was contaminated by Paschen Balmer lines (i.e., P16, P15 and P13 at $\lambda\lambda$ 8502, 8545, and 8665, respectively). To rectify this, we instead used the Paschen hydrogen lines from P11 to P19 for cross-correlation of the stars that showed Paschen lines by visual inspection. For templates, we chose a few “exemplary” Paschen-lined spectra and measured their radial velocities by hand. For cross-correlation of these stars, we used a wavelength range surrounding Paschen lines P11 to P19 ($8400 - 8900 \text{ Å}$).

We next used three different methods to understand the errors of our radial velocities: the Tonry and Davis (1979) r parameter, the internal errors from the fits, and the external

errors from multiple observations of the same objects.

The r parameter measures how well the cross-correlation worked where larger values indicate more reliable results. For example, the average r parameter for Paschen lined stars after being cross-correlated against our Ca II triplet radial velocity standards was 20.3. However, the average r parameter for these stars after being cross-correlated against Paschen-lined templates was 53.8. Overall, the average r parameter for YSG candidates was 79.4 (comparable to the value of 75.7 found by Neugent et al. (2010) for SMC YSG candidates), while the average value for RSG candidates was 44.2. We believe that the average RSG r parameter is lower than the average YSG r parameter because given our color selection criteria, the RSG candidates are dimmer than the YSG candidates at our observed wavelength range. Still, even a r parameter of 44 is impressive (for example, Tonry and Davis (1979) published single digit values when studying galaxies).

As expected, internal errors (errors due to uncertainties in the cross-correlation fits) were highly correlated with r parameters. Stars with large r parameters ($r > 100$) had internal radial velocity errors (σ) close to 1.5 km s^{-1} while stars with average r parameters ($50 < r < 100$) had errors around 3 km s^{-1} . Stars with low r parameters ($r < 50$) had errors around 5 km s^{-1} .

There were 179 stars observed twice, which allowed us to calculate an external error of 3 km s^{-1} by determining the mean absolute difference between two observations. These errors most likely stem from our ability to fit the comparison lines and not any lack of signal to noise in our spectra.

Identifying LMC supergiants based on radial velocities proved to be quite trivial. As Figure 4 shows, there is a clear bimodal distribution among the stars' radial velocities with foreground dwarfs clustered around 0 km s^{-1} and LMC supergiants clustered around 278 km s^{-1} . This figure further confirms that we were able to successfully identify LMC RSGs using color and proper motion criteria alone while radial velocities were necessary for LMC YSG confirmation. Our final radial velocity results, along with other identifying information about each supergiant candidate, are shown in Tables 1 (YSGs) and 2 (RSGs).

In their study of SMC YSGs, Neugent et al. (2010) found a small but significant subsample of stars that fell in between the stars that were clearly Milky Way or clearly SMC members. For the hotter of these, they used the OI $\lambda 7774$ line to help assign membership. Osmer (1972) had shown the OI $\lambda 7774$ line is sensitive to luminosity in Galactic F-type stars, a dependence that Przybilla et al. (2000) showed was due to non-LTE and sphericity effects. Drout et al. (2009) showed that this worked for even G-type stars in M31, a high metallicity environment. At the low metallicity of the SMC, Neugent et al. (2010) did not

find as good a correlation between the OI $\lambda 7774$ line strength and luminosity for the cooler ($T_{\text{eff}} < 5200$) stars in their sample. Fortunately, as we’ve seen previously, the radial velocities by themselves did a more than adequate job here thanks to the considerably larger systemic velocity of the LMC compared to the SMC (278 km s^{-1} versus 158 km s^{-1}). The use of the OI $\lambda 7774$ will be discussed further in a future paper.

3.2. Final Membership Assignments

Owing to the large radial velocity separation between the Milky Way and the LMC, membership determination proved to be straight forward. Based on a visual examination of Figure 4, we concluded that stars with radial velocities higher than 200 km s^{-1} (317 YSG candidates and 505 RSG candidates) are probable LMC supergiants and were labeled “category 1.” Stars with radial velocities lower than 155 km s^{-1} (1129 YSG candidates and 17 RSG candidates) are probable foreground dwarfs and were labeled “category 3.” The 6 candidates (all YSG candidates) between these two radial velocity cut-offs were then labeled “category 2” or possible, but not probable, LMC supergiants. The locations of the category 1 and category 2 YSGs and RSGs within the LMC are shown in Figure 5. Note the excellent spatial agreement between the YSGs and RSGs. Compare this to Figure 3, where the YSG *candidates* were heavily contaminated by foreground stars, and thus show a far more uniform spatial distribution.

A subset of our RSG candidates had previously been observed by Massey & Olsen (2003) and confirmed as LMC RSGs using radial velocities. These 43 stars are indicated in Table 2. A comparison of the radial velocities presented in this work versus the radial velocities presented by Massey & Olsen (2003) yields a average difference of 3.6 km s^{-1} with a standard deviation of 4.3 km s^{-1} , consistent with our own external radial velocity errors.

4. Contamination and Completeness

With LMC membership determined, we focused on understanding our contamination and completeness rates for both YSGs and RSGs.

4.1. Foreground Dwarfs

Before the observing proposal was even submitted, we estimated the foreground contamination for both YSGs and RSGs using control fields. The vast majority of these contam-

inants should be Milky Way disk dwarfs, which we knew we could separate from the LMC’s population of supergiants using radial velocities. Stars in these control fields were selected using the same criteria described in §2.1 and were positioned at ± 5 degrees in Galactic longitude from the LMC’s center. Since these fields should be populated solely by foreground stars, they provide a direct contamination estimate.

As described in §2.1, we began with 2187 YSG candidates. The two control fields yielded 1471 and 1751 stars, respectively. Thus, we estimated our foreground dwarf contamination to be between 67% and 80%. After observing these candidates, we found a contamination of 78%, as expected.

We began this project quite confident that we could estimate the number of RSGs in the LMC based on color selection criteria and proper motion cut-offs alone, as discussed in §1. Thus, we expected the foreground dwarf contamination to be quite minimal. Out of the 522 observed RSG candidates, 505 turn out to be RSGs. This yields a contamination rate of 3%, as expected.

4.2. Halo Giants

While foreground dwarfs can be eliminated using their radial velocities, this is not the case with halo giants as their radial velocities may overlap with that of the LMC, as much of the LMC’s systemic velocity is actually the reflex motion of the sun (Courteau & van den Bergh 1999). We can estimate their relatively minimal contamination using the Besançon models (Robin et al. 2003). Figure 1 shows radial velocity histograms based on the model results for stars within the same color range as our YSG and RSG candidates.

Since we observed 70% of our YSG candidates, the models predict that 3 (50%) of our category 2 YSGs and 8 (3%) of our category 1 YSGs are halo giants. This suggests that while several of our category 2 yellow stars may actually be Milky Way members, it is very unlikely that any of our category 1 YSGs are Milky Way halo giants.

Similarly, for the red stars, the Besançon models predict only one red halo giant with a radial velocity larger than 155 km s^{-1} . Thus, since we observed 44% of our RSG candidates, there is a low probability that our RSG sample is uncontaminated by more than one halo giant.

4.3. Known Supergiants Not Observed

To gain a greater understanding of our survey’s completeness, we conducted a literature search of previously known YSGs within the LMC that our survey did not find. The results are shown in Table 3³. Of the eleven “known” LMC YSGs, nine were on our original observing list but weren’t observed and the remaining two never made it onto our list for the reasons explained in the table. While our original target list may not have included every LMC yellow supergiant, this literature reality check suggests that we’re only missing a few, rather than tens of stars.

Previous surveys for RSG members of the LMC are largely incomplete; see Massey & Olsen (2003). Objective prism surveys, such as the case study by Sanduleak & Phillip (1977), were used by Humphreys (1979), Elias et al. (1985), and Oestreich & Schmidt-Kaler (1998) for follow-up studies, but the poor precision of the coordinates render them of limited use for all but the brightest stars. Massey & Olsen (2003) and Levesque et al. (2006) used the *UBVRI* survey of the LMC by Massey (2002) for follow-up RSG work, but this survey only covered part of the LMC. Massey & Olsen (2003) used radial velocities to confirm that the foreground contamination of RSGs was less than $\sim 10\%$, while here we find that the combination of 2MASS photometry and UCAC-3 proper motions reduces the contamination to $< 3\%$. Regardless, given that the contamination is on the order of 10%, we can certainly estimate the number of RSGs in the LMC to a reasonably accurate value, about 1800, for $K < 10.2$. Cross-correlating this list against the literature (especially given the poor coordinates for the objective prism studies) is beyond the scope of the present paper.

5. Testing the Current Geneva Evolutionary Models

Here we describe how we used the stars’ colors to determine their temperatures and luminosities and how these results allow us to comment on the accuracy of the current Geneva evolutionary models.

³Evans et al. (2011) identify two LMC members of type G5/K3 that are not on our list, VFTS 289 and [P93] 2186. These are not included in Table 3 as they are likely cooler than the stars we consider here.

5.1. Determining Temperatures and Luminosities

To place the stars on the H-R diagram, we need to determine the stars’ effective temperatures and bolometric luminosities. For the YSGs, Neugent et al. (2010) demonstrated that $B - V$ gave slightly better results than (say) $J - K$. However, not all of the stars in our sample have good $B - V$ colors, but all do have good $J - K$ colors from 2MASS since this was part of our selection process. In addition, we would like to determine physical properties for the RSGs. For these, $V - R$ is preferable (see discussion in Drout et al. 2009) but again, we have $V - R$ colors only for a limited subset of our sample. For consistency, we used $J - K$ for the effective temperature determinations of all our stars, but checked for systematic issues using the other colors as follows.

The transformations for the YSGs are newly derived here, using the Kurucz (1992) ATLAS 9 atmospheres. For the RSGs, we adopt the transformations determined using the MARCS models as described by Levesque et al. (2006). For all stars, we first converted the 2MASS $J - K$ colors to the “Bessell & Brett (1988) Homogenized System” following Carpenter (2001):

$$J - K = \frac{(J - K)_{2\text{MASS}} + 0.011}{0.972}$$

We next de-reddened the photometry assuming that $E(J - K) = 0.535 \times E(B - V)$ (Schlegel et al. 1998), and adopted a constant value $E(B - V) = 0.13$ (Massey et al. 1995); i.e., $E(J - K) \sim 0.07$. Note that while this value is appropriate for early-type stars, the reddening is probably greater for RSGs; see discussion in Massey et al. (2005) and Levesque et al. (2005, 2006)⁴.

When $-0.07 < (J - K)_0 \leq 0.70$:

$$\begin{aligned} \log T_{\text{eff}} = & 3.968 - 1.347(J - K)_0 + 5.173(J - K)_0^2 - 14.665(J - K)_0^3 + \\ & 22.098(J - K)_0^4 - 16.277(J - K)_0^5 + 4.633(J - K)_0^6 \end{aligned} \quad (1)$$

For cooler stars, the transformation obtained using the MARCS models is simple; note that there is no logarithm involved.

When $1.4 \geq (J - K)_0 > 0.70$:

$$T_{\text{eff}} = 5638.0 - 1746.2(J - K)_0 \quad (2)$$

⁴This is another advantage of using $J - K$, as the answers we get are less sensitive to the assumptions of constant reddening.

Care has been taken to avoid a discontinuity; at $(J - K)_0 = 0.7$ Equation 1 and Equation 2 each yield a value of ~ 4415 K.

We derived similar transformations for $B - V$ for the yellow stars⁵ and adopted the Levesque (2006) transformations from $V - R$ for the cooler stars⁶. For the former, the comparison with the results for $J - K$ (Equation 1) yields an average difference of -0.015 dex in \log effective temperature, or 175 K at 5000 K, an insignificant difference. (The standard deviation for the sample of 206 stars is 0.04 dex.) For the cooler stars, the comparison with the $J - K$ (Equation 2) is -0.003 dex for the sample of 295 stars, with a standard deviation of 0.02 dex. Thus, we do not feel the analysis is compromised by the lack of optical photometry for these stars.

The bolometric luminosity was computed using the K value transformed from 2MASS again following Carpenter (2001): $K = K_{2\text{MASS}} + 0.044$. It was then corrected for interstellar reddening by 0.05 mag, i.e., $K_0 = K - 0.367 \times E(B - V)$, following Schlegel et al. 1998. The bolometric correction at K (BC_K) is positive, and transformations were computed using the ATLAS9 and MARCS colors as above.

For $3.60 < \log T_{\text{eff}} < 4.04$,

$$\text{BC}_K = 28.48 - 7.244 \times \log T_{\text{eff}} \quad (3)$$

For cooler stars, the relation is nearly linear with effective temperature, and not the logarithm of the temperature. Thus for $T_{\text{eff}} < 4000$ K,

$$\text{BC}_K = 5.50 - 0.739 \times \frac{T_{\text{eff}}}{1000}, \quad (4)$$

following Levesque et al. (2006). Again, care was taken to minimize any discontinuity, and both equations give a BC of 2.4-2.5 at $\log T_{\text{eff}} = 3.60$, or $T_{\text{eff}} = 4000$ K.

The computed effective temperatures and luminosities are shown for our category 1 and 2 LMC supergiants in Table 4. The typical uncertainty in the 2MASS photometry is 0.02 mag in K and 0.03 in $J - K$. This propagates to errors of 0.005 dex in $\log T_{\text{eff}}$ and 0.05 dex in $\log L/L_{\odot}$ for the RSGs, and 0.015 dex in $\log T_{\text{eff}}$ and 0.10 dex in $\log L/L_{\odot}$ for the YSGs.

⁵For stars with $-0.08 < (B - V)_0 < 1.78$, $\log T_{\text{eff}} = 3.923 - 0.755(B - V)_0 + 2.2065(B - V)_0^2 - 3.9777(B - V)_0^3 + 3.7084(B - V)_0^4 - 1.7070(B - V)_0^5 + 0.3053(B - V)_0^6$.

⁶ $T_{\text{eff}} = 7798.3 - 7824.4(V - R)_0 + 4554.8(V - R)_0^2 - 905.21 \times (V - R)_0^3$.

5.2. Stars That Are Too Red

The previously discussed transformations are determined only for $(J - K)_0 \leq 1.4$, corresponding to a MARCS model temperature of 3000 K, since the coolest RSGs identified in the LMC have effective temperatures of 3450 K (Levesque et al. 2006), corresponding to $(J - K)_0 \approx 1.25$, or a $(J - K)_{2\text{MASS}} \approx 1.27$. This 3450 K limit is consistent with the Hayashi limit, set by the demands of hydrostatic equilibrium (Hayashi & Hoshi 1961). The coolest of these are unusual variables (Levesque et al. 2007), exhibiting non-periodic large swings in effective temperature on the order of a year. The only known stars that are redder have high circumstellar extinction, such as the heavily enshrouded and unusually cool RSG WOH G64 (Levesque et al. 2009).

In Figure 2, we see there is a sharp break near $(J - K)_{2\text{MASS}} \approx 1.25$. Yet, there are stars extending redwards beyond $(J - K)_{2\text{MASS}} \approx 2$. When observing, we found occasional instances of blank sky where we expected legitimate sources; invariably these objects were in the “too red” region, as discussed in §2.3. For others, we have valid radial velocities that indicate LMC membership.

To understand the nature of these objects, we carefully checked VizieR for all of our objects with $(J - K)_{2\text{MASS}} > 1.2$, and list what we found in Table 5. Many of these stars have some emission near the $10\mu\text{m}$ Si peak, as indicated by a detection in the IRAS, MSX, or AKARI surveys (Moshir et al. 1989, Egan et al. 2003, and Ishihara et al. 2010, respectfully), indicating significant dust production. This would of course explain the much too red colors.

Most of the stars have an entry in the OGLE database (Soszyński et al. 2009). However, many of the periods appear to be incorrect since the light curves look very poor. We suspect that many of the nominal periods are just aliasing or noise in the data-taking cadence (Stothers & Leung 1971). Some of the stars are also listed as Mira variables by Soszyński et al. (2009). This is not impossible; although our survey is aimed at detected massive red supergiants, it is certainly true that AGBs and Miras could contaminate the faint end of our sample, even though we strove to eliminate these stars by not observing lower mass supergiants, as discussed in §2.1⁷. But, amongst all the OGLE light curves (many more were examined than those listed in Table 5) we saw nothing that resembled an ordinary Mira. Typically Miras have periods longer than ~ 150 days and large amplitudes, ~ 2 mags or more. By contrast, our observed overly red stars luminous enough to be in the ASAS database are characterized by two sorts of light curves. There are the types whose light

⁷Indeed, there are a few stars in the list that have been classified by Lundgren (1988) as having enhanced ZrO (“S-type”, i.e., M4S), indicative of their being AGB stars on their way from evolving from M-type to carbon-type.

curves are called “Lc” in the GCVS (Samus et al. 2006) which have slow, irregular variations with cycle lengths of a few hundred days (like a typical RSG), and then there are the others which have much smaller, short-term variations (of order 100 days) and very long (thousands of days) cycles superposed on that of half a mag (or more) amplitudes. We have flagged these in Table 5.

We include in Table 5 the period in days; these are all from the OGLE catalogue except for two from the GCVS. We confirmed both of the latter using the ASAS-3 database (Pojmanski 1997). The OGLE periods are quoted only if the light curves are reasonably smooth.

In a few cases, the OGLE phased plot shows a very long cycle (~ 1200 days) which additionally contains a much shorter period or periods. These stars are most likely semi-regulars that have very long overtone periods of $10\text{--}20\times$ the fundamental period. In other cases we give notes indicating that the star is variable in an irregular manner, like one expects for the luminous M supergiants, or that it has a very long variation in the ASAS-3 series.

For the stars redder than the reddest RSGs, we would have underestimated the effective temperatures and bolometric luminosities⁸ by simply extrapolating Equations 2 and 4 for larger $(J - K)_0$ values. This is particularly an issue for stars with $10\mu\text{m}$ emission, and hence possibly substantial amounts of dust. Therefore, we did not include the 33 stars with $(J - K)_0 \geq 1.3$ in the HRD. We also refrain from listing their (extrapolated) physical properties in Table 4, as we expect the values would be misleadingly cool and under-luminous. These stars are worthy of spectroscopic follow-up, and we are beginning such efforts.

5.3. The H-R Diagram

We ultimately aim to compare the relative numbers of different kinds of massive stars (O-type main-sequence, and He-burning YSGs, RSGs, and WRs) as a function of mass throughout the Local Group galaxies forming stars. This will provide us with the observational database against which current and future models of stellar evolution models may be compared. Currently, data are too incomplete to accomplish this (see discussion in Massey 2010), but interesting tests can be conducted with what we have at hand. The two tests we make here are: (1) Do the evolutionary tracks extend to the appropriate effective temperatures and luminosities for the YSGs and RSGs? (2) Are the relative lifetimes predicted by

⁸Note that not only are the bolometric corrections to the K -band positive, but they also increase with decreasing effective temperature in this temperature regime.

the models as a function of luminosity correct? We can answer this second question only for the YSGs in our sample, as stars of the same mass overlap considerably in luminosity for the RSGs, as the evolutionary tracks become nearly vertical.

The HRD is shown in Figure 6. The latest Geneva $z = 0.006$ evolutionary tracks, which follow massive star evolution all the way to the end of the core carbon burning phase (Chomienne et al. 2012, in prep), are shown in color, with the initial masses indicated⁹. The solid curves denote the tracks computed assuming an initial rotation speed of 40% the critical (breakup) speed. The 40% value is consistent with zero-age solar-metallicity B-type stars; see discussion in §3 of Ekström et al. (2012). This value may be too high or too low for other mass ranges, but is suitable for the $12\text{--}30M_{\odot}$ range. Individual stars may have slower or faster rotation thus, these tracks represent an average behavior. The tracks computed with no rotation are shown by dashed lines for comparison. Note that all tracks were computed using the Asplund et al. (2009) lower solar abundance values, and thus the z value for the LMC is lower than what we would have previously used ($z = 0.008$).

We show the location of our stars based upon the transformations described in §5.1 in Figure 6. Stars that are probable LMC members (category 1) are shown with solid points while the six less certain (category 2) stars are shown as open circles. As discussed in §5.1, the uncertainties in the placement of these points are small, comparable to the size of the points. At the low luminosity end, the distribution has been ended by the magnitude cutoff used when selecting our sample, which will extend to lower luminosities at cooler temperatures. The YSG realm is delineated by the two black vertical lines denoting the effective temperature range of 4800 - 7500 K. Stars to the left of this are blue supergiants, and our selection criteria was overly generous by including them to 10,000 K ($\log T_{\text{eff}} = 4.0$). Stars to the right are red supergiants, and they pile up at the Hayashi limit, set by the coolest temperature and largest radius (for a given mass) for which a star can be in hydrostatic equilibrium (Hayashi & Hoshi 1961; see recent discussion in Levesque et al. 2007). This limit is a function of the metallicity, with the tracks shifting about 0.03 dex to higher temperatures as the metallicity lowers from solar to that of the LMC (see Figure 10 in Levesque et al. 2006 and Figure 1 of Drout et al. 2012).

The $32M_{\odot}$ track shown (in black) represent a kind of transition track. Stars with lower masses should remain in the RSG region, while those with higher masses evolve back to the blue side, becoming Wolf-Rayet stars. The loops are indicative of some unstable situation

⁹Identical Geneva evolutionary models at a higher metallicity ($z = 0.014$) have been published with full details given by Ekström et al. (2012). The newer models discussed here were simply computed at a lower metallicity, with the appropriate scaling of mass-loss rates.

reflecting the fact that the model is “hesitating” between the red and the blue. Such unstable behavior is in fact known for some high luminosity YSGs, as discussed in §6. Note that the exact mass for such a transitional situation is dependent upon the assumed mass-loss rate during the RSG phase, which is still uncertain.

The agreement between the locations of the stars and evolutionary tracks in the HRD and the evolutionary tracks is nothing short of exceptional. First, we find that the tracks correctly reproduce the locus of the RSGs, not only in terms of the effective temperatures, but also in terms of the upper luminosity limit. Most RSGs have masses of $15M_{\odot}$, but a few are found at higher masses. The highest luminosity RSGs we find have $\log L/L_{\odot} \sim 5.5$, and this is also the limit where the tracks no longer extend to the RSG stage. We note that the 20 and the $25M_{\odot}$ tracks could extend to slightly cooler temperatures, but the agreement is otherwise excellent. The rotating $32M_{\odot}$ model predicts no $\log L/L_{\odot} = 5.6$ RSGs should be seen, and indeed none are. The presence of two stars at cooler temperatures and slightly lower luminosities than the rotating $32M_{\odot}$ track are consistent with our expectation that tracks of slightly lower mass than the $32M_{\odot}$ would reach to cooler temperatures.

The locations of the YSGs are similarly consistent with the tracks. The highest luminosity in our sample is found at $\log T_{\text{eff}} \sim 3.9$ and $\log L/L_{\odot} \sim 5.7$, a good match to the $32M_{\odot}$. At this luminosity we don’t find any cooler YSGs, and indeed the $32M_{\odot}$ track does not extend to cooler temperatures. The higher luminosity tracks ($120M_{\odot}$ and $85M_{\odot}$) do not extend into the YSG regime, nor do we find any stars at the corresponding high luminosities. The presence of a single cooler YSG at $\log L/L_{\odot} = 5.6$ is consistent with interpolating between the 25 and $32M_{\odot}$ (rotating) tracks, again recalling that the $32M_{\odot}$ is at a transition between subsequent blue-wards evolution and not.

We can now test the models quantitatively, using the lifetimes predicted by the models. As long as our sample is unbiased in luminosity, then the *relative* number of YSGs as a function of luminosity (mass) should scale as the lifetimes of the YSG phase with a small correction for the initial mass function:

$$N_{m_1}^{m_2} \propto [m^{\Gamma}]_{m_1}^{m_2} \times \bar{\tau}$$

where Γ is the slope of the initial mass function (taken here to be -1.35 following Salpeter 1955; see also Massey 1998), and $\bar{\tau}$ is the average duration of the evolutionary phase for stars with masses between m_1 and m_2 .

We list the predicted lifetimes of the YSG phase in Table 6. Note that the times are given in terms of *thousands* of years; the YSG phase is indeed short-lived! We give the comparison between the model predictions and the observed number in Table 7, normalized to the 12-15 M_{\odot} bin.

The relative lifetimes predicted by these newer models show excellent agreement with the observations, unlike what we found in M31 and the SMC (Drout et al. 2009, Neugent et al. 2010) using older versions of the Geneva models¹⁰. The agreement with the “S4” (initial rotation 40% of the critical breakup speed) shows astonishingly good agreement. The physically unrealistic case of no rotation (“S0”) shows poorer agreement. The only area where the models may predict an overabundance of YSGs is for the $32M_{\odot}$ track, with its significantly longer lifetime, due to the many loops. Even so, the agreement for it is much better than what was found for M31 (Drout et al. 2009) and the SMC (Neugent et al. 2010).

In making the comparisons between the expected relative number of YSGs and the expected number of YSGs we have averaged the lifetimes of the models in order to compute the lifetime in a particular mass bin. However, we expect that the lifetime of the $32M_{\odot}$ track is not representative of models of slightly lower or higher mass, since the $32M_{\odot}$ is a transitional model. Thus we also include in Table 7 the comparisons we obtain by ignoring the $32M_{\odot}$ track. When we do so, we find that the agreement between observation and the models for the YSGs is excellent.

Note that the Geneva models follow the evolution to the end of core carbon burning. Thus, unless dramatic mass loss occurs at the very end, the tracks are complete as shown. If high mass loss occurs at the very end, the star may indeed become blue again, crossing from the RSG position into the YSG region. However, the duration will be so short that it will not change the results.

An assumption in our calculation is that, averaged over the LMC as a whole, star formation has stayed essentially constant over the past 20 Myr, since the models predict that the highest mass YSGs came from stars that formed 3-5 Myr ago, while the lowest mass YSGs came from stars that formed 20 Myr ago. Harris & Zaritsky (2009) have investigated the star formation history of the LMC, and conclude that over the past 5 Gyr the star formation rate has stayed constant to within a factor of 2; in recent times, there was a “mini-burst” ~ 12 Myr ago, but the present star formation rates are comparable to this today. This burst would correspond to the main sequence lifetime of a $15\text{-}20M_{\odot}$ star according to the models.

We can perform one other reality check. The *relative* lifetimes of the models appear to

¹⁰The differences between the older Geneva models and the newer ones presented here are described in Ekström et al. (2012). They can be summarized as follows: (1) The initial composition differs. In the newer models a mixture of heavy elements based on the solar abundances obtained by Asplund et al. (2005) is used. (2) The opacity tables differ due to the changed initial composition. (3) The nuclear reaction rates have been updated. (4) A different prescription for the mass loss rate during the RSG stage has been adopted. (5) A different prescription for the diffusion coefficient describing rotational mixing has been adopted.

be solid for the YSG phase, but what about the absolute lifetimes? Drout et al. (2009) argue from an (admittedly highly uncertain) number of O stars in M31 that the average lifetime of the YSG phase should be $\sim 3,000$ years, much shorter than what the models predict. Let us consider the case here for the LMC. Massey (2010) estimates there are $\sim 6,000$ main-sequence stars in the LMC with masses $> 20M_{\odot}$. This number is probably no worse than a factor of 2 or 3. The average IMF-weighted main-sequence lifetime, according to the S4 models, is ~ 6.5 Myr. We observed 11 YSGs with masses above $20M_{\odot}$ (Table 7), and we observed $\sim 70\%$ of the candidates. Thus we might expect there to be ~ 16 high mass YSGs in total. If true, then the average lifetime should be $6.5 \text{ Myr} \times \frac{16}{6000}$, or ~ 17 thousand years. This is a bit smaller than the ages listed in Table 6 for masses above $20M_{\odot}$, but we are well within the uncertainties of the number of O stars, in our opinion.

As we emphasized in earlier papers (e.g., Drout et al. 2009, Neugent et al. 2010), the numbers and location of YSGs are very sensitive to how convection and other mixing processes are treated, as well as uncertain mass-loss rates (Maeder & Meynet 2000), who quote Kippenhahn & Weigert (1990) that, “[The yellow supergiant] phase is a sort of magnifying glass, revealing relentlessly the faults of calculations of earlier phases.” In this case it appears that the models may be in great shape.

6. Summary and Future Work

After observing 1452 potential LMC YSG candidates (70% of those originally selected), we identified 317 category 1 probable YSGs and 6 category 2 possible YSGs. Similarly, after observing 522 potential RSG candidates (44% of those originally selected), we identified 505 category 1 probable RSGs.

Confident of our completion, we then placed the stars on the HRD. The new $z = 0.006$ Geneva models of Chomienne et al. (2012, in prep) do an exemplary job of predicting the relative numbers and locations of different mass YSGs. In a complementary study in M33, Drout et al. (2012) found similarly good agreement. However, we have yet to test these models in M31 and the SMC where older models failed since new models are not yet available for such metallicities. But, when they are it will be of great interest to see if the problem with the YSG lifetimes has disappeared.

Besides allowing us to test the Geneva evolutionary models, this complete sample of LMC YSGs will be useful for many other purposes in the future. Some examples include comparisons with evolutionary tracks, lifetimes, and surface compositions. Additionally, this sample is particularly interesting because it appears YSGs could be core collapse supernova

progenitors (see, for example, Maund et al. 2011 and Georgy 2012).

Another topic worthy of future study is that of variability. The stars we discuss here are typically more luminous than the classical Cepheids. Only one of the stars in our sample is known to be a Cepheid, J04542376-7054057 (aka as Sk -70° 14, HV 873, and Radcliffe 60), first described by Feast et al. (1960), and the derived luminosity ($\log L/L_\odot \sim 4.407$) listed in Table 4 is at the extreme lower end of our sample. High luminosity yellow supergiants in the Milky Way are not known for Cepheid-like behavior, although variability can be spectacular. For instance, ρ Cas undergoes strong changes in effective temperature and absolute visual magnitude every 50 years or so (Lobel et al. 2003). Luminous Blue Variables (LBVs) may occasionally masquerade as F supergiants, developing a “pseudo photosphere”, as S Doradus did in 2000 (Massey 2000), but the connection between the LBV phenomenon remains speculative (Smith et al. 2004 and references therein). Thus, a variability study of a large population of YSGs would be of interest¹¹.

The yellow and red supergiants we’ve identified in the LMC represent a very young (< 20 Myr) population, and our study has produced very good radial velocities. These radial velocities could be used to further study the kinematics of the LMC, following Olsen & Massey (2007). Their study compared the radial velocities of RSGs to that of carbon stars and the HI gas to argue that we see tidal heating of the stellar disk. It would be of interest to expand this now using the larger data set we have produced here. Similarly, our results suggest a path to further studies of the SMC’s kinematics. Neugent et al. (2010) used their radial velocity data on the SMC YSGs to briefly comment on the complexity of the kinematics of that galaxy. Now that we have shown that a large sample of RSGs can be identified from the UCAC3, radial velocity studies of such a sample could provide an interesting complement to that of HI studies of the SMC’s kinematics.

Overall, we hope to provide a solid observational database against which evolutionary models may be compared. At this point, the LMC’s massive star population has been characterized for YSGs, RSGs and WRs (Massey et al. 2003). We are currently studying the unevolved LMC OB stars and once this is done, the LMC’s massive star population will have been characterized from one side of the HRD to the other.

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¹¹Some authors refer to the luminous yellow supergiants as “hypergiants”, a term we eschew as unnecessary hyperbole.

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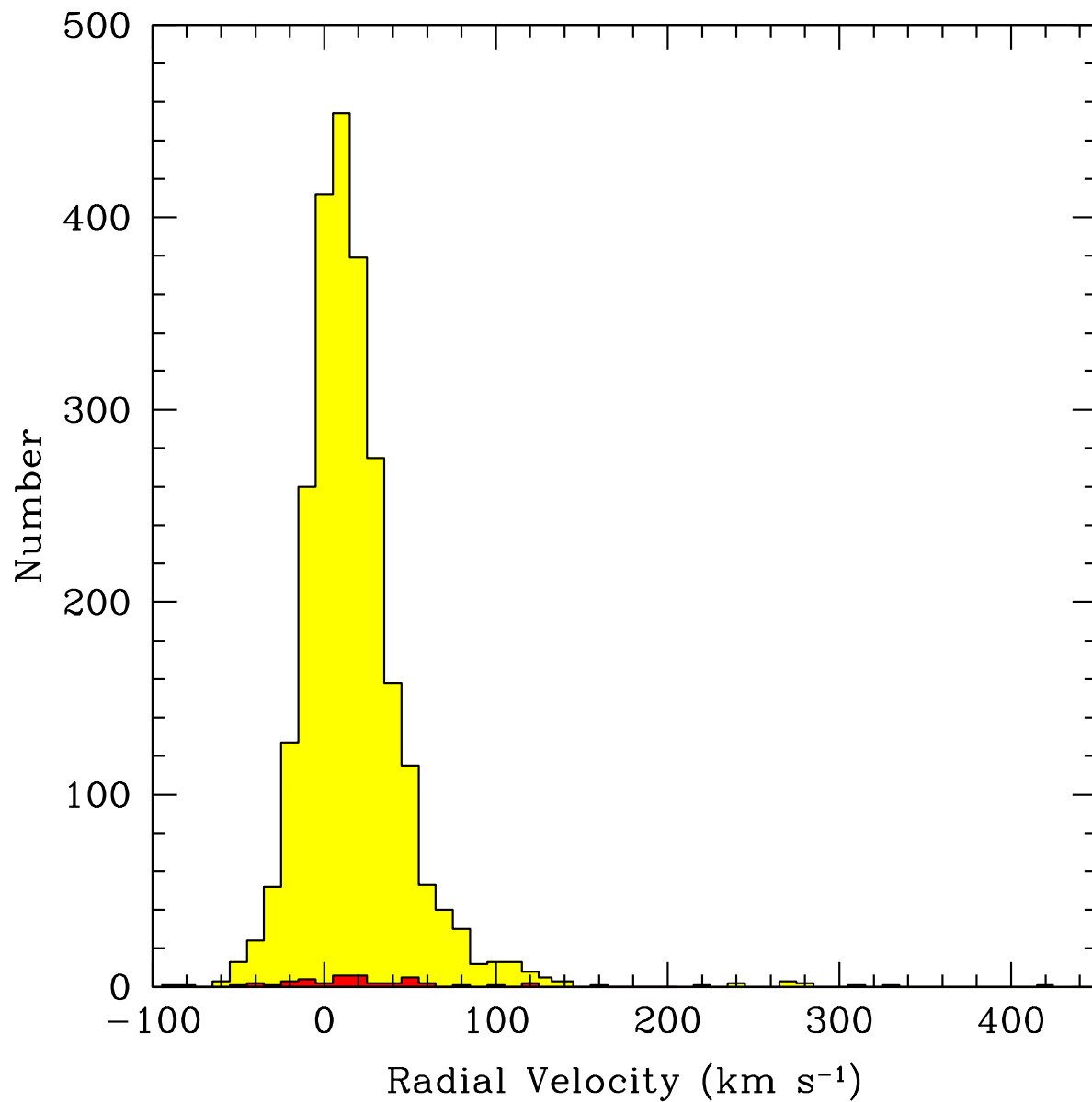


Fig. 1.— Predicted LMC foreground contamination. Contamination for both YSGs (yellow) and RSGs (red) was estimated using the Besançon models. The models were run using the same color ranges and proper motion selection as our candidates and covering the same area of sky.

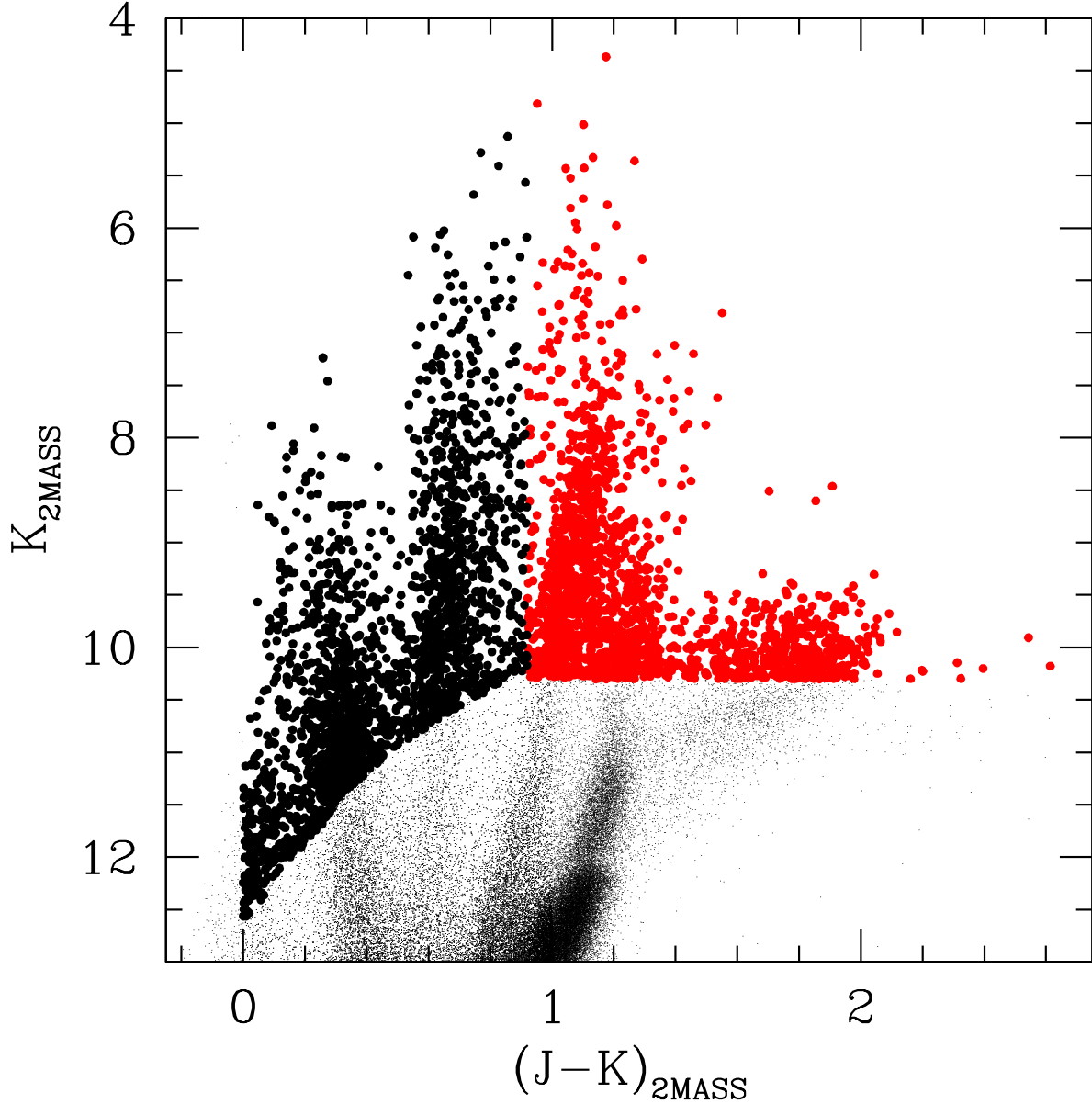


Fig. 2.— Color and magnitude selection criteria for the YSG and RSG candidates. The tiny black dots represent all possible targets before any selection based on color and magnitude. The YSG candidates (black filled circles) extend between $(J-K)_{2MASS} > 0$ when $K_{2MASS} = 12.6$ and $(J-K)_{2MASS} < 0.9$ when $K_{2MASS} = 10.2$ and extend redwards. The RSG candidates (red filled circles) pick up at $(J-K)_{2MASS} > 0.9$ when $K_{2MASS} = 10.2$. We believe the reddest colors to be caused by high reddening and/or confusion and expect to find the majority of the RSGs within $0.9 < (J-K)_{2MASS} < 1.2$, or a T_{eff} range of 3500 – 4500 K.

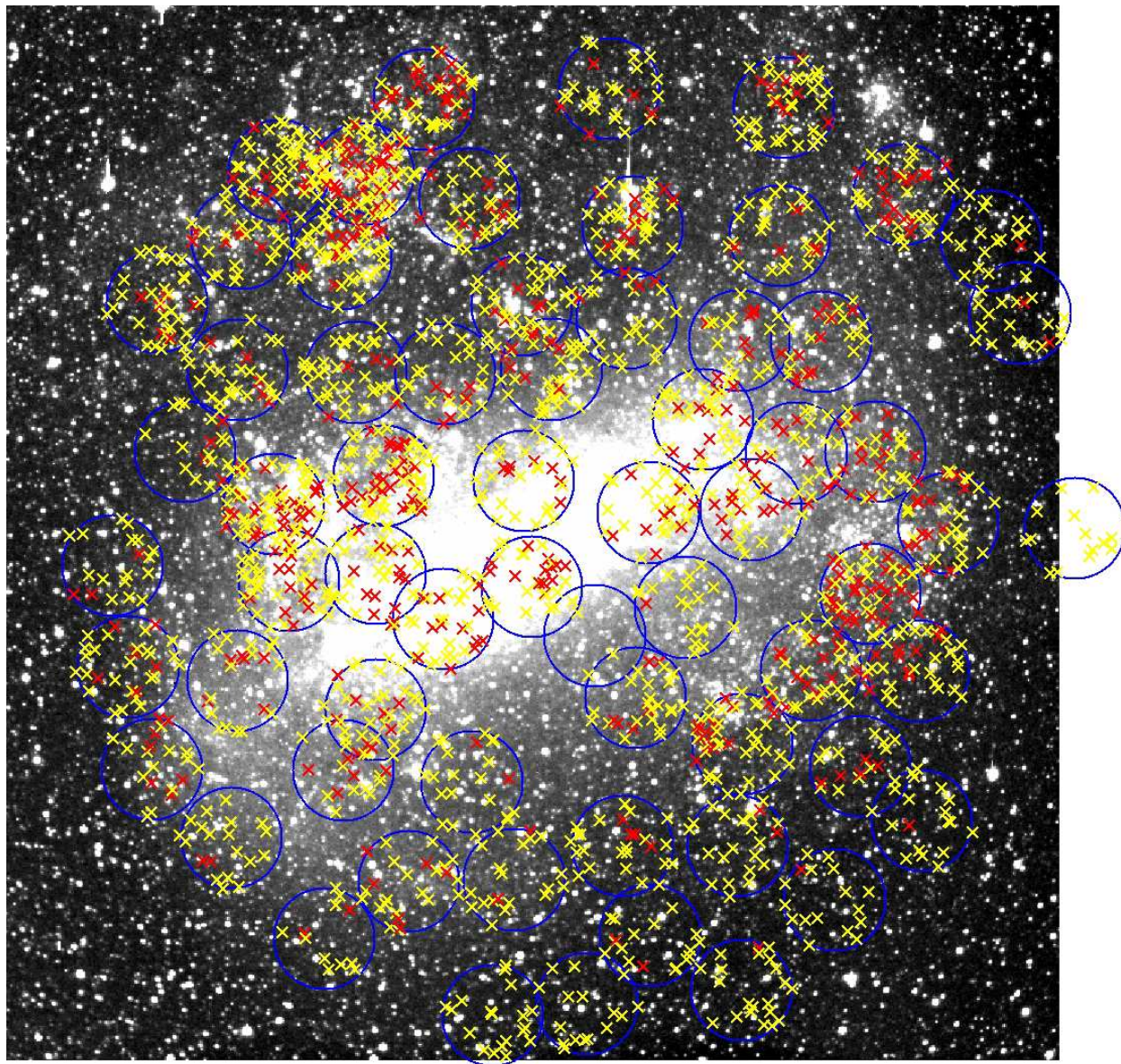


Fig. 3.— Locations of observed fields and candidates. The blue $2/3^\circ$ circles represent the 64 fields observed while the yellow \times s represent the YSG candidates and the red \times s represent the RSG candidates observed. The background image was obtained using the “parking lot” camera (Bothun & Thompson 1988).

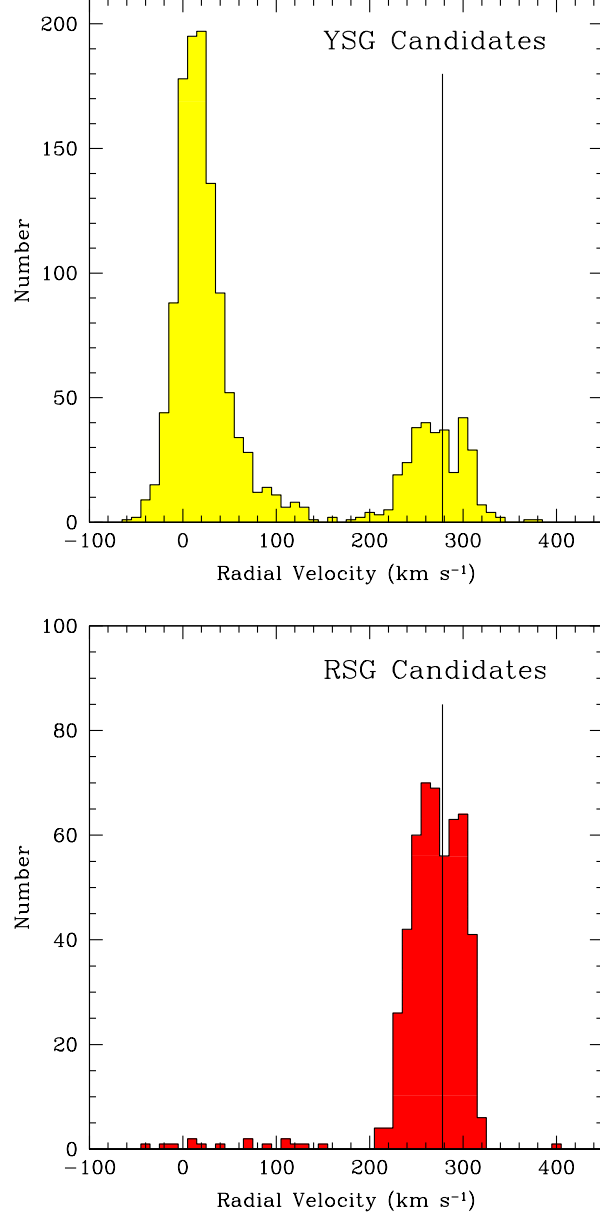


Fig. 4.— YSG and RSG candidate radial velocity histograms. The bimodal distribution shows the clean separation between the foreground stars (centered around 0 km s⁻¹) and the LMC supergiants (centered around 278 km s⁻¹ and shown by the vertical line).

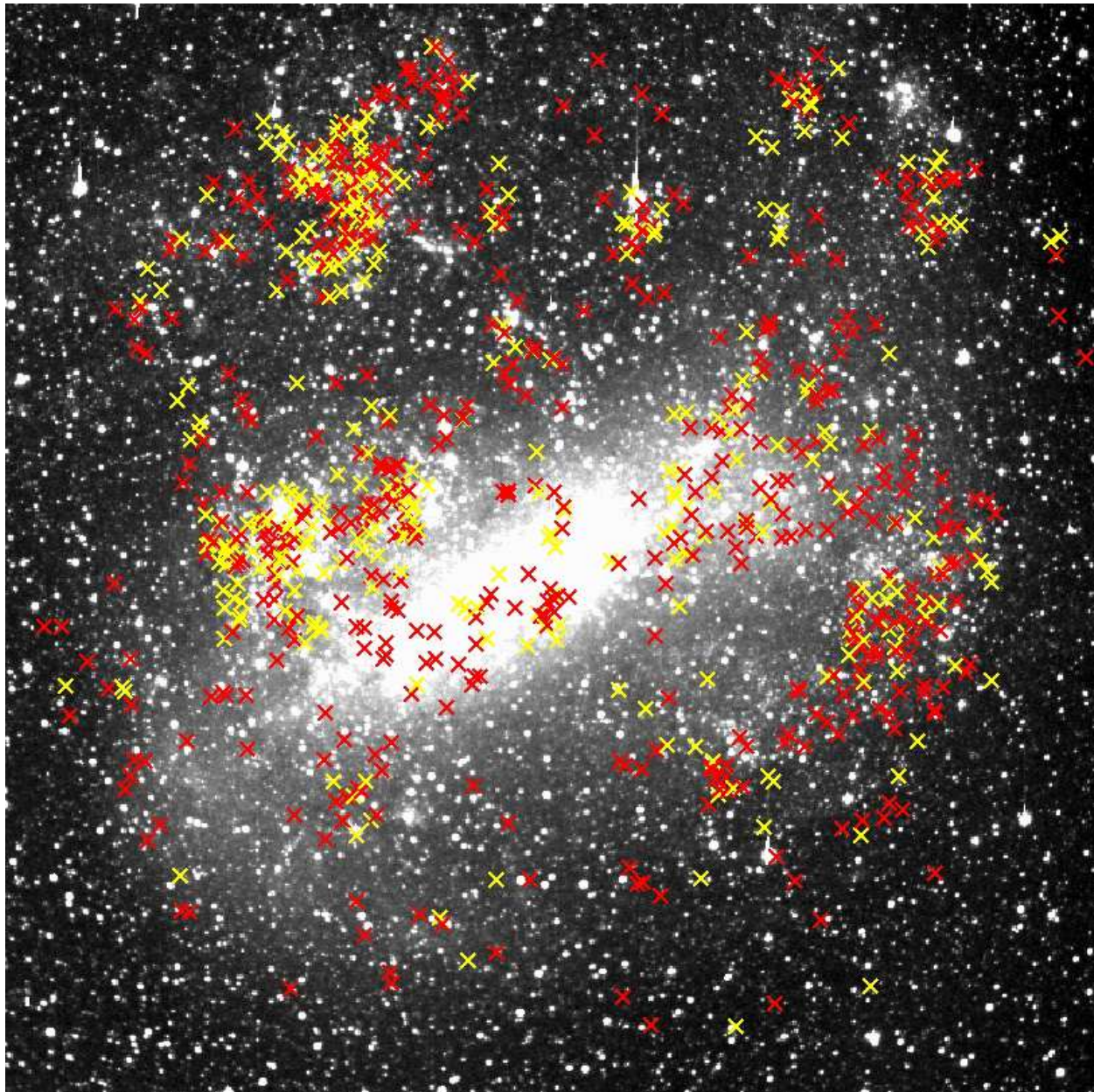


Fig. 5.— Locations of confirmed yellow and red supergiants. The yellow \times s represent our confirmed YSGs and the red \times s represent our confirmed RSGs. Note the good spatial agreement between the YSGs and RSGs; compare to Figure 3.

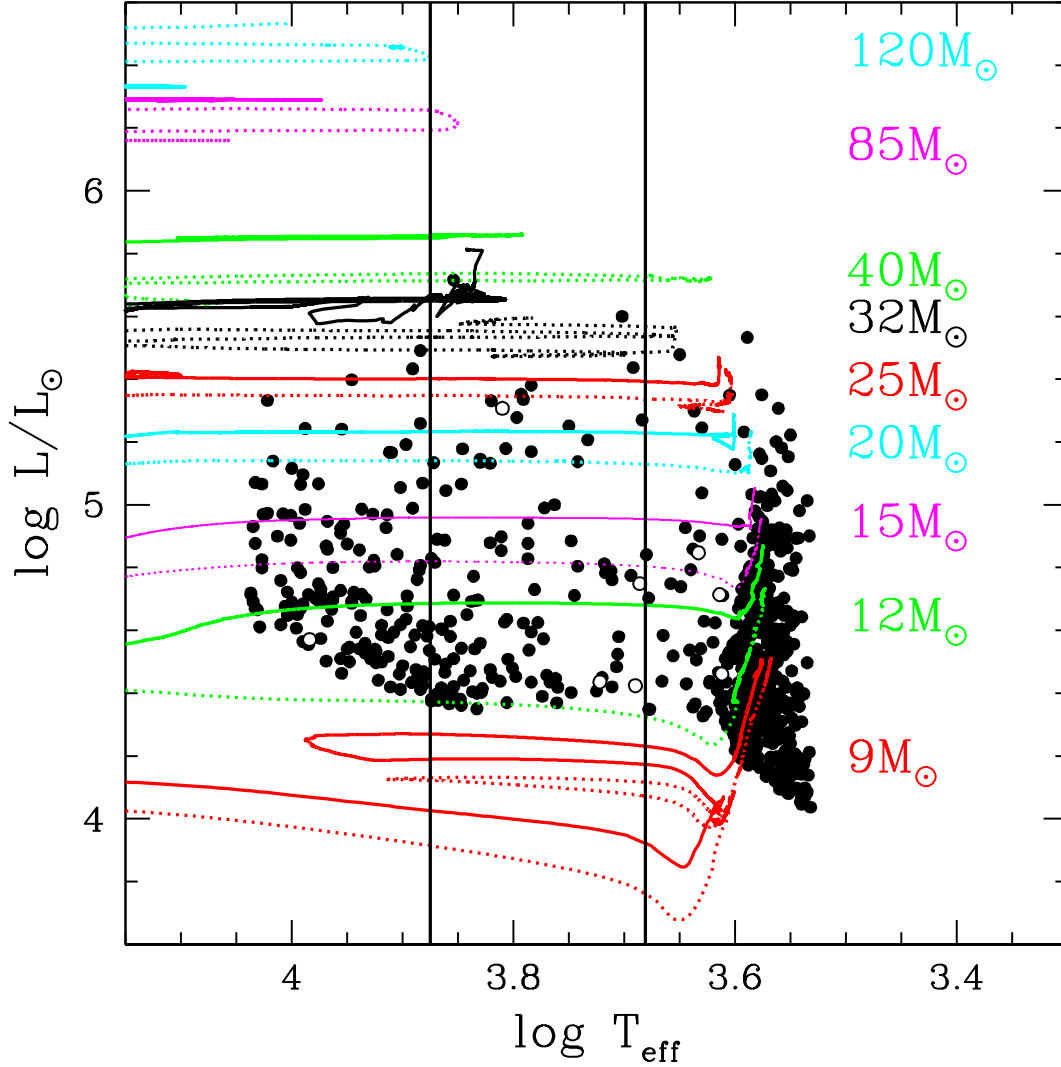


Fig. 6.— The H-R Diagram. The probable LMC members (category 1) are showed by solid points; the less certain members (category 2) by open circles. The typical errors are comparable to the point size. The $z = 0.006$ Geneva evolutionary tracks (Chominne et al. 2012, in prep) are shown. The solid curves denote the models run with an initial rotation velocity 40% of the critical value, while the dashed curves denote the models with no initial rotation. The initial masses are indicated on the side. The two vertical lines delineate the YSG region while stars at the far right are the red supergiants.

Table 1. Properties of Observed YSG Candidates*

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	τ^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J04363664-6902399	04 36 36.65	-69 02 40.0	...	9.83	0.46	...	...	...	28.2	102.0	3	...	...	...
J04364564-6858373	04 36 45.64	-68 58 37.3	...	10.93	0.50	...	...	...	11.7	80.8	3	...	...	...
J04371920-6901016	04 37 19.20	-69 01 01.6	...	8.84	0.71	...	...	...	29.6	88.4	3	M0	5	HD 270584
J04380215-6904276	04 38 02.15	-69 04 27.6	...	9.98	0.70	...	...	...	25.6	140.5	3	...	...	...
J04380671-6907112	04 38 06.71	-69 07 11.3	...	9.82	0.61	...	...	...	31.4	109.1	3	...	...	...
J04384481-6858586	04 38 44.82	-68 58 58.7	...	11.24	0.35	...	...	...	-10.8	94.5	3	...	...	...
J04384847-6840267	04 38 48.48	-68 40 26.7	...	8.57	0.80	...	...	...	75.5	74.7	3	K7	5	HD 270599
J04394544-6852388	04 39 45.45	-68 52 38.9	...	10.56	0.55	...	...	...	17.3	73.0	3	...	...	...
J04401724-6915589	04 40 17.25	-69 15 58.9	...	8.77	0.85	...	...	...	81.8	82.4	3	K7	5	HD 270626
J04404585-6916432	04 40 45.85	-69 16 43.2	...	8.19	0.74	...	...	...	21.2	131.2	3	K5	5	HD 270634
J04410239-6843110	04 41 02.40	-68 43 11.1	...	8.00	0.68	...	...	...	36.2	75.0	3	K0	5	HD 270636
J04423048-6853431	04 42 30.49	-68 53 43.2	...	10.71	0.46	...	...	...	35.9	34.4	3	...	...	...
J04423607-6904419	04 42 36.07	-69 04 42.0	...	8.19	0.33	...	...	...	-1.3	95.7	3	F8/G0V	17	HD 30491
J04425491-6745060	04 42 54.92	-67 45 06.0	...	11.44	0.19	13.53	0.04	...	31.9	60.9	3	...	...	...
J04425553-6736411	04 42 55.54	-67 36 41.2	...	9.17	0.65	...	...	...	78.7	103.8	3	K7	5	HD 270671
J04425642-6905511	04 42 56.42	-69 05 51.1	...	10.37	0.69	...	...	...	30.8	31.1	3	...	...	...
J04430205-6741438	04 43 02.05	-67 41 43.9	...	8.12	0.63	...	...	...	56.7	127.7	3	K2	5	HD 270673
J04431499-7102362	04 43 14.99	-71 02 36.2	...	10.88	0.38	...	...	...	17.8	74.1	3	...	...	...
J04440090-6739517	04 44 00.90	-67 39 51.8	...	8.89	0.69	...	...	...	34.3	71.6	3	K7	5	HD 270691
J04440958-6749012	04 44 09.59	-67 49 01.3	...	8.30	0.72	...	...	...	48.2	98.7	3	K5	5	HD 270696
J04450446-6749220	04 45 04.46	-67 49 22.1	...	10.44	0.69	...	...	...	3.0	81.2	3	...	...	...
J04450582-7100046	04 45 05.82	-71 00 04.6	614	10.60	0.39	12.31	0.66	0.39	30.7	108.4	3	...	...	...
J04451583-7112329	04 45 15.83	-71 12 32.9	...	...	0.37	...	...	...	2.3	91.2	3	G0	5	HD 268649
J04451586-7059573	04 45 15.86	-70 59 57.4	...	8.53	0.24	13.20	0.13	...	1.1	48.1	3	F5	5	HD 268641
J04451823-6714396	04 45 18.23	-67 14 39.6	...	11.53	0.28	...	...	...	22.4	114.9	3	...	...	...
J04452255-6730464	04 45 22.55	-67 30 46.4	...	10.94	0.40	...	...	...	-2.2	117.8	3	...	...	...
J04452730-7051432	04 45 27.30	-70 51 43.2	934	10.66	0.33	12.23	0.57	0.35	33.1	67.4	3	K0	5	HD 268638
J04452798-7118190	04 45 27.98	-71 18 19.1	...	10.71	0.40	13.13	0.07	...	41.0	68.7	3	...	...	...
J04453680-7056425	04 45 36.80	-70 56 42.5	1072	11.29	0.29	12.75	0.60	0.36	7.6	60.7	3	...	...	...
J04454161-6853071	04 45 41.62	-68 53 07.2	1134	10.45	0.63	13.01	1.04	0.60	45.0	48.5	3	...	...	...
J04454868-7010540	04 45 48.69	-70 10 54.0	1250	9.30	0.66	11.87	1.05	0.53	19.7	93.4	3	K0	5	HD 268620
J04455469-6748293	04 45 54.70	-67 48 29.4	...	10.79	0.48	...	...	...	-3.2	141.4	3	...	...	...
J04460040-6722442	04 46 00.40	-67 22 44.3	...	10.05	0.26	...	...	...	2.1	78.0	3	G5	5	HD 270731
J04460043-6913211	04 46 00.44	-69 13 21.1	1413	9.80	0.42	11.54	0.66	0.42	26.9	55.3	3	K5	5	HD 270744
J04461853-7047262	04 46 18.54	-70 47 26.3	1691	11.00	0.19	12.07	0.38	0.24	10.8	29.0	3	F2	5	HD 268651
J04462288-6733237	04 46 22.88	-67 33 23.8	...	11.54	0.29	...	...	...	-1.1	62.4	3	...	...	...
J04462599-6950186	04 46 26.00	-69 50 18.7	1796	9.26	0.77	12.51	1.30	0.74	243.7	87.0	1	...	...	...
J04462794-6959219	04 46 27.94	-69 59 21.9	1824	10.69	0.33	12.24	0.58	0.35	21.6	110.3	3	G5	5	HD 268627
J04462818-7008399	04 46 28.18	-70 08 39.9	1829	10.88	0.39	12.50	0.62	0.38	29.0	64.8	3	...	...	...
J04463462-6704279	04 46 34.63	-67 04 28.0	...	9.70	0.58	...	...	...	188.1	71.1	2	...	...	...
J04463561-6742381	04 46 35.62	-67 42 38.1	...	7.00	0.80	...	...	...	7.5	75.8	3	K7	5	HD 270745
J04463654-6957137	04 46 36.55	-69 57 13.8	1973	11.29	0.31	13.01	0.66	0.40	15.9	41.0	3	...	...	...
J04465642-7114447	04 46 56.43	-71 14 44.8	...	9.47	0.88	...	...	...	24.4	95.8	3	...	...	...
J04465994-6848164	04 46 59.94	-68 48 16.4	2332	11.16	0.34	12.66	0.56	0.36	6.3	40.6	3	...	...	...
J04470444-6706530	04 47 04.45	-67 06 53.1	...	10.92	0.10	11.26	0.08	...	327.3	37.1	1	B1.5Ia	30	Sk-67 2
J04471083-6701447	04 47 10.84	-67 01 44.7	...	11.37	0.28	...	...	...	5.7	76.1	3	...	...	...
J04471263-6953519	04 47 12.63	-69 53 52.0	2536	11.34	0.26	12.76	0.55	0.35	0.7	82.1	3	F5	32	GV 12
J04471676-7113101	04 47 16.76	-71 13 10.2	...	9.85	0.67	...	...	...	88.9	113.0	3	...	...	...
J04471852-6918293	04 47 18.53	-69 18 29.4	2634	8.49	0.83	11.55	1.22	0.69	84.1	90.0	3	K5	5	HD 268606
J04472197-6734402	04 47 21.98	-67 34 40.2	...	10.51	0.36	22.1	155.5	3

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Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J04473275-6920565	04 47 32.75	-69 20 56.6	2873	9.73	0.68	12.41	1.04	0.63	38.5	78.4	3	...	...	...
J04473323-6914328	04 47 33.23	-69 14 32.8	2885	11.64	0.16	12.53	0.18	0.20	255.1	60.7	1	A3I	30	HD 268612
J04473836-6949345	04 47 38.37	-69 49 34.5	2974	10.07	0.56	12.47	0.99	0.54	20.0	131.1	3	...	...	...
J04474037-6908087	04 47 40.37	-69 08 08.7	...	7.94	0.61	...	...	...	0.4	106.1	3	K0	5	HD 268609
J04474095-6751194	04 47 40.95	-67 51 19.4	...	10.20	0.60	...	...	...	9.5	89.6	3	...	...	...
J04474110-7008357	04 47 41.11	-70 08 35.7	...	7.29	0.61	...	...	...	10.3	87.0	3	G5	5	HD 268650
J04475346-6844482	04 47 53.47	-68 44 48.2	3235	9.70	0.87	12.93	1.27	0.71	123.9	85.2	3	...	...	...
J04475403-6910456	04 47 54.03	-69 10 45.6	3250	11.95	0.08	12.52	0.11	0.11	261.7	52.9	1	A0I	30	Sk-69 3
J04475856-7006503	04 47 58.57	-70 06 50.3	3342	11.29	0.35	12.93	0.66	0.38	13.7	79.3	3	...	...	...
J04480561-6710052	04 48 05.62	-67 10 05.2	...	9.03	0.24	...	...	...	27.6	51.4	3	F5	5	HD 270777
J04480561-6859506	04 48 05.61	-68 59 50.6	3496	8.98	0.71	11.69	1.09	0.61	-15.5	106.0	3	K5	5	HD 268614
J04480655-6845558	04 48 06.56	-68 45 55.8	...	9.42	0.24	...	...	...	14.3	70.0	3	G0	5	HD 268603
J04480804-6905402	04 48 08.04	-69 05 40.2	3541	10.29	0.67	12.90	1.04	0.61	30.6	96.3	3	...	...	...
J04480900-6739441	04 48 09.00	-67 39 44.2	...	10.22	0.35	...	...	...	-1.5	123.4	3	K0	5	HD 270783
J04481207-7117118	04 48 12.08	-71 17 11.9	...	10.47	0.68	...	...	...	18.9	42.7	3	...	...	...
J04481662-6957124	04 48 16.63	-69 57 12.4	3677	7.97	0.80	11.14	1.34	0.72	28.1	70.7	3	K7	5	HD 268656
J04482377-6710525	04 48 23.78	-67 10 52.6	...	12.04	0.04	13.11	0.24	...	17.3	19.0	3	A7	5	HD 270782
J04482396-7041325	04 48 23.96	-70 41 32.5	3818	10.57	0.63	13.13	1.02	0.55	-43.4	62.5	3	...	...	...
J04482951-7003135	04 48 29.52	-70 03 13.6	3928	11.00	0.44	12.85	0.78	0.42	31.5	95.8	3	...	...	...
J04482971-6907269	04 48 29.71	-69 07 26.9	3930	11.95	0.09	12.42	0.07	0.12	268.8	85.1	1	A0I	4	HD 268632
J04483027-6745261	04 48 30.28	-67 45 26.1	...	11.52	0.28	...	...	...	8.2	70.0	3	...	...	...
J04483530-7044521	04 48 35.30	-70 44 52.2	4048	11.26	0.37	12.99	0.76	0.42	20.7	67.1	3	...	...	...
J04483584-6724112 ^a	04 48 35.85	-67 24 11.3	...	11.18	0.31	...	...	...	21.7	122.1	3	...	...	...
J04483678-6946531	04 48 36.78	-69 46 53.1	...	8.05	0.65	...	...	...	5.3	86.8	3	K5	5	HD 268655
J04484249-7053577	04 48 42.49	-70 53 57.8	...	7.35	0.70	...	...	...	51.3	103.3	3	K0	5	HD 268702
J04484654-7043248	04 48 46.54	-70 43 24.8	...	8.97	0.48	...	...	...	2.0	104.4	3	K0	5	HD 268696
J04484825-6750410	04 48 48.26	-67 50 41.1	...	10.67	0.57	...	...	...	1.4	77.8	3	...	...	...
J04485209-6731038	04 48 52.10	-67 31 03.8	...	10.60	0.30	...	...	...	-14.3	117.6	3	...	...	...
J04485644-6736154	04 48 56.44	-67 36 15.4	...	11.31	0.35	...	...	...	14.9	108.8	3	...	...	...
J04485811-6910249	04 48 58.11	-69 10 25.0	4580	10.71	0.54	12.83	0.81	0.50	-25.0	69.1	3	...	...	...
J04490538-6716092	04 49 05.38	-67 16 09.2	...	9.10	0.71	...	...	...	49.9	97.2	3	...	...	...
J04490955-6843573	04 49 09.56	-68 43 57.4	4913	10.55	0.30	12.00	0.52	0.35	8.9	65.4	3	K2	5	HD 268630
J04491348-6947132	04 49 13.48	-69 47 13.2	5018	10.29	0.79	13.54	1.54	0.78	259.8	54.0	1	...	...	...
J04491403-6858116	04 49 14.04	-68 58 11.7	5030	11.16	0.28	12.48	0.43	0.31	225.3	35.0	1	F5I	30	GV 19
J04491981-6722076	04 49 19.82	-67 22 07.6	...	9.48	0.23	...	...	...	-5.1	65.8	3	F2	5	HD 270800
J04492221-6918398	04 49 22.21	-69 18 39.9	5285	11.92	0.14	12.77	0.31	0.20	10.9	22.6	3	...	...	...
J04492432-6843313	04 49 24.33	-68 43 31.3	5343	10.61	0.65	13.22	0.95	0.61	46.0	34.0	3	...	...	...
J04492541-6655386	04 49 25.41	-66 55 38.6	...	11.24	0.33	...	...	...	7.8	76.9	3	...	...	...
J04493251-6708462	04 49 32.52	-67 08 46.2	5612	10.22	0.75	13.19	1.21	0.61	66.4	78.0	3	...	...	...
J04493382-6658091	04 49 33.83	-66 58 09.2	...	10.30	0.31	...	...	...	-7.8	128.3	3	K0	5	HD 270803
J04494449-7104556	04 49 44.49	-71 04 55.7	...	8.47	0.76	...	...	...	-12.9	96.5	3	K5	5	HD 268739
J04494839-7002504	04 49 48.39	-70 02 50.5	6171	11.08	0.39	12.55	0.52	0.30	17.6	90.0	3	...	...	...
J04495720-7050472 ^a	04 49 57.20	-70 50 47.2	6525	10.41	0.67	12.98	1.02	0.55	53.2	69.3	3	...	...	...
J04500375-7047219 ^a	04 50 03.75	-70 47 22.0	6815	11.28	0.32	12.82	0.59	0.36	7.0	57.4	3	...	...	...
J04500555-6947541	04 50 05.55	-69 47 54.2	6876	8.81	0.71	11.60	1.16	0.61	5.3	83.6	3	M0	5	HD 268684
J04501237-6726098	04 50 12.37	-67 26 09.8	7179	10.64	0.22	11.83	0.39	0.33	18.2	110.4	3	F8	5	HD 270817
J04501909-6922538	04 50 19.10	-69 22 53.9	7472	11.22	0.39	12.89	0.64	0.40	-15.6	105.7	3	...	...	...
J04502944-7031222	04 50 29.45	-70 31 22.3	7944	11.11	0.39	12.76	0.67	0.37	-17.0	71.9	3	...	...	...
J04503840-6654332	04 50 38.40	-66 54 33.2	...	9.42	0.64	...	...	...	46.1	102.4	3	K7	5	HD 270821
J04504227-6945500	04 50 42.28	-69 45 50.0	8571	10.79	0.24	12.05	0.49	0.31	14.5	87.0	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J04504493-6714244	04 50 44.94	-67 14 24.4	8713	10.86	0.25	12.12	0.44	0.30	32.6	73.8	3	...	...	...
J04504903-6702122	04 50 49.04	-67 02 12.2	...	10.45	0.65	...	...	...	8.9	53.5	3	...	...	...
J04505046-7132135	04 50 50.47	-71 32 13.6	...	10.26	0.37	...	...	...	54.2	110.1	3	...	...	CPD-71 290
J04505585-6925525	04 50 55.85	-69 25 52.6	...	9.36	0.33	10.65	0.47	...	209.9	38.3	1	F6Ia	1	HD 268687
J04510288-6947492	04 51 02.88	-69 47 49.3	...	8.32	0.56	...	...	...	-4.4	165.5	3	G5	5	HD 268709
J04510578-7035278	04 51 05.79	-70 35 27.9	9724	11.40	0.30	12.74	0.58	0.29	-5.8	86.2	3	F5	32	GV 33
J04510771-7016397	04 51 07.71	-70 16 39.7	9809	11.58	0.13	12.29	0.18	0.11	230.5	79.2	1	A3I	30	HD 268733
J04511159-7144315	04 51 11.59	-71 44 31.6	...	9.67	0.66	...	...	...	95.5	95.5	3	...	...	...
J04511357-6911410	04 51 13.57	-69 11 41.0	10076	11.98	0.15	12.74	0.16	0.14	242.2	59.7	1	A3I	30	GV 31
J04511610-6950175 ^a	04 51 16.11	-69 50 17.6	10196	10.04	0.72	12.94	1.25	0.67	38.7	64.8	3	...	...	...
J04511677-7033100	04 51 16.77	-70 33 10.1	10233	9.81	0.57	12.12	0.94	0.52	2.6	93.5	3	...	...	...
J04511787-7151181	04 51 17.87	-71 51 18.2	...	11.20	0.33	...	...	...	7.4	25.4	3	...	...	...
J04512478-7010432	04 51 24.79	-70 10 43.2	10614	9.84	0.61	12.25	0.96	0.53	30.7	116.9	3	...	...	...
J04512817-7139551	04 51 28.17	-71 39 55.1	...	9.61	0.43	...	...	...	19.6	110.4	3	F5	5	HD 270853
J04512981-7100449	04 51 29.81	-71 00 45.0	10838	10.81	0.35	12.40	0.61	0.35	3.6	78.9	3	K5	5	HD 268771
J04513384-7014393	04 51 33.84	-70 14 39.3	...	9.38	0.39	10.97	0.61	...	45.8	91.0	3	F5	5	HD 268742
J04514403-6711594	04 51 44.04	-67 11 59.4	11492	9.87	0.64	12.34	1.04	0.54	-18.3	103.7	3	...	...	...
J04514507-6930177	04 51 45.08	-69 30 17.8	11545	11.52	0.18	12.34	0.19	0.17	250.0	69.6	1	A7I	30	GV 41
J04514778-6650473	04 51 47.79	-66 50 47.4	...	9.75	0.45	...	...	...	19.5	115.1	3	K5	5	HD 268608
J04514948-6851343	04 51 49.49	-68 51 34.3	11778	9.21	0.64	11.76	0.94	0.56	20.6	42.1	3	K2	5	HD 268683
J04515270-6900216	04 51 52.70	-69 00 21.6	11936	10.51	0.67	13.12	1.02	0.58	15.4	59.4	3	...	...	...
J04515432-6901266	04 51 54.33	-69 01 26.7	12034	11.90	0.16	12.71	0.17	0.19	255.6	66.8	1	A5I	30	GV 43
J04515810-6925339	04 51 58.11	-69 25 33.9	...	9.63	0.38	10.71	0.24	...	279.3	49.4	1	B9Ieq	30	HD 268718
J04520207-6652462	04 52 02.08	-66 52 46.3	...	8.48	0.64	...	...	...	-30.6	100.9	3	K7	5	HD 268621
J04520603-6953561	04 52 06.04	-69 53 56.1	12609	9.42	0.61	11.96	1.04	0.57	23.3	160.6	3	K7	5	HD 268740
J04520692-7043524	04 52 06.92	-70 43 52.4	...	9.58	0.37	...	...	...	38.5	77.8	3	G0	5	HD 268773
J04520951-7030191	04 52 09.52	-70 30 19.1	12786	11.90	0.12	12.55	0.15	0.10	253.1	68.0	1	A4I	30	HD 268763
J04520970-7003551	04 52 09.70	-70 03 55.2	...	8.37	0.20	12.22	0.24	...	11.1	39.9	3	F0III	17	HD 31704
J04521129-7148341	04 52 11.30	-71 48 34.1	...	9.07	0.81	...	...	...	159.0	84.5	2	...	...	...
J04522418-6924142	04 52 24.18	-69 24 14.2	...	7.88	0.09	8.46	0.23	...	10.2	19.7	3	A3III	17	HD 31722
J04522695-6848514 ^a	04 52 26.95	-68 48 51.4	13654	10.82	0.34	12.43	0.59	0.40	17.8	72.1	3	...	...	...
J04524066-6949433	04 52 40.67	-69 49 43.4	14382	10.80	0.44	12.54	0.65	0.38	2.2	82.9	3	...	...	...
J04524416-6848135 ^a	04 52 44.16	-68 48 13.6	...	9.26	0.31	...	...	...	-6.1	43.1	3	F5	5	HD 268704
J04524521-7133220	04 52 45.21	-71 33 22.1	...	8.18	0.79	...	...	...	121.5	116.5	3	G8	32	[FD70] S 17
J04525337-6705425	04 52 53.37	-67 05 42.5	15084	11.82	0.18	12.62	0.13	0.14	266.3	86.6	1	A5I	30	Sk-67 9
J04525363-7048237	04 52 53.64	-70 48 23.8	15107	11.17	0.24	12.38	0.47	0.29	34.4	39.1	3	K0	5	HD 268789
J04530013-6711379	04 53 00.14	-67 11 38.0	15461	10.71	0.57	12.96	0.88	0.51	23.6	60.1	3	...	...	...
J04530230-6835411 ^a	04 53 02.30	-68 35 41.1	...	8.28	0.70	...	...	...	43.9	88.0	3	K0	5	HD 268701
J04530258-6834511 ^a	04 53 02.58	-68 34 51.1	15603	10.81	0.29	12.14	0.48	0.32	-12.7	67.9	3	...	...	...
J04530330-7004372	04 53 03.31	-70 04 37.3	15647	10.33	0.47	12.21	0.80	0.42	18.0	115.3	3	...	...	...
J04530398-6937285	04 53 03.99	-69 37 28.5	15684	...	0.76	12.94	1.21	0.69	372.9	45.4	1	...	...	...
J04530521-6831553 ^a	04 53 05.21	-68 31 55.4	...	9.72	0.27	...	...	...	7.2	59.6	3	G0	5	HD 268699
J04531726-6952043	04 53 17.27	-69 52 04.4	16487	10.74	0.48	12.77	0.69	0.44	185.3	79.3	2	...	...	...
J04532044-7006033	04 53 20.45	-70 06 03.3	16677	9.14	0.65	11.56	0.97	0.52	-13.7	114.1	3	K5	5	HD 268778
J04532533-6855003 ^a	04 53 25.34	-68 55 00.3	16940	10.20	0.74	13.30	1.49	0.76	264.0	51.1	1	...	...	SP77 30-1
J04533459-6704429	04 53 34.60	-67 04 43.0	...	11.69	0.11	12.08	0.10	...	282.8	95.5	1	A0Ia	1	Sk-67 11
J04533718-6943071	04 53 37.19	-69 43 07.1	17629	11.65	0.21	12.66	0.27	0.18	225.8	41.9	1	F2I	30	GV 62
J04533896-6840548 ^a	04 53 38.97	-68 40 54.9	...	8.56	0.68	...	...	...	34.0	101.1	3	K2	5	HD 268725
J04534623-6706179	04 53 46.24	-67 06 17.9	18173	10.85	0.38	12.43	0.61	0.38	-10.0	113.7	3	...	...	...
J04535946-6941519	04 53 59.47	-69 41 52.0	18963	10.29	0.68	12.90	0.95	0.58	49.9	76.8	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s ⁻¹)	Category ^d	Class	Ref. ^e	Comments	
J04535951-6922426	04 53 59.51	-69 22 42.6	18971	12.20	0.03	12.60	0.05	0.13	256.0	72.0	1	B9Ia	1	HD 268758	
J04540105-7125065	04 54 01.06	-71 25 06.6	...	10.36	0.29	...	...	...	36.2	69.4	3	F2	5	HD 268834	
J04540693-6849044 ^a	04 54 06.94	-68 49 04.4	19403	9.89	0.66	12.51	1.04	0.58	21.3	135.5	3	...	...	...
J04540940-6937189	04 54 09.41	-69 37 18.9	...	12.49	0.00	12.35	0.29	...	274.4	17.6	1	B1	30	HD 268774	
J04541578-6929020	04 54 15.78	-69 29 02.1	...	8.33	0.67	...	...	...	-9.7	148.5	3	K2	5	HD 268770	
J04541878-6705471	04 54 18.79	-67 05 47.2	20153	12.36	0.04	12.54	0.01	0.04	277.2	105.2	1	B8-I:	32	HD 268669	
J04542376-7054057	04 54 23.77	-70 54 05.8	20503	10.84	0.47	12.44	0.53	0.28	232.3	44.1	1	F8-I	30	Sk-70 14; Cepheid	
J04542646-7002023	04 54 26.47	-70 02 02.3	...	8.65	0.29	...	...	...	3.9	77.2	3	G0	5	HD 268793	
J04543073-7120405	04 54 30.74	-71 20 40.5	...	11.09	0.40	...	...	...	37.7	69.4	3	G0	32	[FD70] S 21	
J04543120-7019187	04 54 31.20	-70 19 18.8	21012	9.24	0.66	11.80	1.09	0.53	18.1	135.8	3	K7	5	HD 268811	
J04543386-6717305	04 54 33.87	-67 17 30.6	21160	11.36	0.29	12.62	0.49	0.29	1.1	71.2	3	...	...	...
J04543501-7010408	04 54 35.02	-70 10 40.8	21247	11.22	0.36	12.86	0.62	0.39	35.7	84.5	3	...	...	...
J04543683-6920221	04 54 36.84	-69 20 22.1	21369	7.61	0.72	11.26	1.77	0.87	248.0	46.2	1	...	...	SP77 31-16	
J04544146-6926117	04 54 41.47	-69 26 11.8	21661	11.83	0.16	12.54	0.12	0.16	257.4	81.7	1	B5I	30	Sk-69 31	
J04544414-6714505	04 54 44.15	-67 14 50.5	...	11.61	0.02	11.64	0.01	...	284.4	110.3	1	B7Ia	1	HD 268690	
J04544448-6641336	04 54 44.48	-66 41 33.7	...	12.04	0.06	...	...	...	276.2	95.4	1	A3I	30	Sk-66 9	
J04544600-6857459	04 54 46.01	-68 57 46.0	...	11.96	0.09	12.26	0.11	...	270.4	96.2	1	B8I	30	HD 268760	
J04544747-7039366	04 54 47.47	-70 39 36.6	22060	9.93	0.74	12.79	1.23	0.63	3.4	80.4	3	...	...	...
J04545013-6656221	04 54 50.13	-66 56 22.2	...	12.06	0.09	12.56	0.11	...	264.0	70.2	1	A7I	30	Sk-66 11	
J04545038-7145110	04 54 50.39	-71 45 11.1	...	6.09	0.92	...	...	...	-10.4	78.5	3	K2	5	HD 270893	
J04545184-6840055 ^a	04 54 51.84	-68 40 05.6	...	7.17	0.76	...	...	...	-3.8	150.8	3	K0	5	HD 268754	
J04545509-6834507 ^a	04 54 55.10	-68 34 50.7	22561	9.02	0.64	11.53	1.10	0.59	112.0	69.3	3	K5	5	HD 268751	
J04545710-6638491	04 54 57.10	-66 38 49.1	...	9.61	0.66	...	...	...	25.3	93.6	3	...	...	...
J04545735-6645088	04 54 57.36	-66 45 08.9	...	10.50	0.12	10.81	0.04	...	284.5	96.3	1	...	...	...
J04550188-7016504	04 55 01.88	-70 16 50.5	23020	10.42	0.68	12.93	1.02	0.55	16.9	117.8	3	...	...	...
J04550286-6715352	04 55 02.87	-67 15 35.3	23081	11.29	0.34	12.74	0.59	0.35	35.3	70.1	3	...	...	...
J04550689-6858315	04 55 06.89	-68 58 31.5	23368	11.01	0.45	12.89	0.72	0.42	-15.5	64.6	3	...	...	...
J04551006-6650426	04 55 10.06	-66 50 42.6	...	10.86	0.15	11.55	0.18	...	252.5	59.6	1	A7I	30	Sk-66 13	
J04551106-6710104	04 55 11.07	-67 10 10.4	...	9.28	0.14	9.69	0.10	...	271.8	52.4	1	B9Iae	11	HD 32034	
J04551461-7155566	04 55 14.62	-71 55 56.6	...	8.13	0.68	...	...	...	13.1	101.9	3	G5	5	HD 270899	
J04552890-7014426	04 55 28.91	-70 14 42.7	...	8.63	0.39	...	...	...	30.2	139.6	3	G0	5	HD 268824	
J04553222-6930392	04 55 32.23	-69 30 39.2	25136	10.75	0.38	12.26	0.56	0.36	5.7	82.0	3	...	...	...
J04553248-6957450	04 55 32.48	-69 57 45.1	...	8.83	0.33	10.08	0.50	...	203.3	33.6	1	F5Ia	23	HD 268819	
J04553468-7002355	04 55 34.69	-70 02 35.5	25310	11.21	0.37	12.78	0.60	0.34	-5.8	108.0	3	F8:	32	GV 92	
J04554043-6926408	04 55 40.44	-69 26 40.9	25715	11.81	0.06	12.34	0.11	0.10	248.7	83.2	1	A0I	30	Sk-69 39a	
J04554911-7126168	04 55 49.12	-71 26 16.9	...	10.45	0.33	...	...	...	-21.7	72.9	3	F5	5	HD 268881	
J04554975-7039369	04 55 49.75	-70 39 36.9	26384	11.13	0.37	12.74	0.69	0.39	30.8	64.8	3	...	...	...
J04555060-6837086 ^a	04 55 50.60	-68 37 08.7	...	10.46	0.30	...	...	...	4.8	66.1	3	F5	5	HD 268779	
J04555085-7146158	04 55 50.86	-71 46 15.9	...	10.35	0.65	...	...	...	10.9	86.6	3	...	...	...
J04555280-6942224	04 55 52.81	-69 42 22.5	26581	12.15	0.11	12.42	0.15	0.11	245.8	79.7	1	A2I:	32	GV 94	
J04555283-7054113	04 55 52.84	-70 54 11.4	26575	8.60	0.83	11.75	1.27	0.68	-20.3	72.9	3	K5	5	HD 268861	
J04561603-7042358	04 56 16.03	-70 42 35.9	...	10.26	0.28	...	...	...	-7.2	61.4	3	F5	5	HD 268862	
J04561655-7213562	04 56 16.55	-72 13 56.3	...	10.60	0.34	...	...	...	14.0	88.6	3	...	...	...
J04561802-7120440	04 56 18.03	-71 20 44.1	...	9.31	0.64	...	...	...	20.4	117.0	3	G5	5	HD 268890	
J04562391-7015274	04 56 23.91	-70 15 27.5	...	10.19	0.25	...	...	...	17.8	110.3	3	F8	5	HD 268844	
J04562741-6756006	04 56 27.42	-67 56 00.6	29093	11.51	0.21	12.49	0.26	0.19	256.3	53.2	1	A9I	30	GV 102	
J04562749-6922466	04 56 27.50	-69 22 46.6	29101	11.20	0.33	12.87	0.71	0.41	247.9	65.6	1	...	...	...
J04563637-6933273	04 56 36.38	-69 33 27.3	29849	11.87	0.14	12.68	0.17	0.16	229.2	58.0	1	A2III:	32	GV 110	
J04563646-7016292	04 56 36.46	-70 16 29.2	29858	10.96	0.36	12.59	0.65	0.38	10.3	85.9	3	...	...	...
J04563991-6644367	04 56 39.91	-66 44 36.7	...	11.25	0.07	11.59	0.08	...	290.1	88.3	1	A0Ia	32	HD 268727	

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Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J04564000-6941562	04 56 40.00	-69 41 56.3	30155	9.97	0.43	11.84	0.82	0.45	257.7	50.5	1	K5	5	HD 268828
J04564820-6750157	04 56 48.20	-67 50 15.8	30822	10.90	0.31	12.43	0.57	0.38	31.9	112.9	3	...	...	...
J04564941-6948314 ^a	04 56 49.41	-69 48 31.5	30929	8.96	0.74	12.06	1.64	0.73	247.8	53.9	1	...	...	RM 1-77
J04565520-7211568	04 56 55.20	-72 11 56.8	...	9.54	0.64	...	...	...	-42.6	126.5	3	...	...	...
J04565670-7146327	04 56 56.70	-71 46 32.8	...	7.85	0.91	11.15	1.35	...	98.5	78.4	3	K5	5	HD 270915
J04565762-6713184	04 56 57.63	-67 13 18.5	...	10.37	0.34	...	...	...	-8.1	125.6	3	K0	5	HD 268750
J04565833-7019439	04 56 58.34	-70 19 43.9	31639	10.65	0.34	12.05	0.49	0.32	11.8	71.3	3	F5	5	HD 268864
J04565839-6939100	04 56 58.40	-69 39 10.0	31635	10.09	0.92	13.62	1.55	0.82	252.8	51.7	1	...	...	...
J04570219-7226578	04 57 02.19	-72 26 57.8	...	11.17	0.27	...	...	...	17.0	84.2	3	...	...	...
J04570677-6754453	04 57 06.78	-67 54 45.4	32351	9.72	0.71	12.38	1.07	0.59	40.3	82.4	3	...	...	...
J04570711-6829383 ^a	04 57 07.12	-68 29 38.3	32376	7.99	0.87	11.19	1.30	0.67	36.1	84.8	3	M0	5	HD 268803
J04570805-6825123	04 57 08.06	-68 25 12.4	...	11.41	0.02	11.49	0.00	...	280.2	24.3	1	B2Ia	26	HD 268798
J04571326-6801330	04 57 13.27	-68 01 33.1	32895	8.67	0.66	11.16	1.06	0.56	19.6	114.1	3	K5	5	HD 268784
J04572133-6938495	04 57 21.33	-69 38 49.5	...	8.38	0.67	...	...	...	16.5	124.9	3	K2	5	HD 268841
J04572485-6850318 ^a	04 57 24.85	-68 50 31.9	...	6.49	0.81	...	...	...	20.0	73.9	3	K2III:	17	HD 32403
J04572621-6702468	04 57 26.21	-67 02 46.9	...	9.61	0.79	...	...	...	49.8	104.4	3	...	...	...
J04573042-6643220	04 57 30.43	-66 43 22.1	...	10.58	0.30	...	...	...	17.3	112.1	3	...	...	...
J04573094-6838039	04 57 30.95	-68 38 04.0	34322	10.97	0.23	12.14	0.42	0.29	12.9	62.8	3	F0	5	HD 268817
J04573486-7229102	04 57 34.87	-72 29 10.2	...	9.28	0.79	...	...	...	-12.6	129.2	3	...	...	...
J04573490-6755243	04 57 34.91	-67 55 24.4	34639	10.20	0.51	12.26	0.87	0.49	6.3	84.1	3	...	...	...
J04573549-7018407	04 57 35.49	-70 18 40.8	34696	9.64	0.63	12.11	1.02	0.54	-0.5	118.1	3	...	...	...
J04573855-7141340	04 57 38.56	-71 41 34.0	...	7.28	0.88	...	...	...	-16.7	85.5	3	K7	5	HD 270923
J04574025-6741353	04 57 40.25	-67 41 35.4	35042	10.47	0.58	12.74	0.98	0.52	9.4	42.4	3	...	...	...
J04574999-7133066	04 57 49.99	-71 33 06.6	...	10.40	0.40	...	...	...	24.6	112.4	3	...	...	...
J04575163-7206310	04 57 51.64	-72 06 31.0	...	10.57	0.26	...	...	...	15.6	74.7	3	F5	5	HD 270930
J04575367-7223568	04 57 53.67	-72 23 56.9	...	11.15	0.34	...	...	...	-6.8	113.1	3	...	...	...
J04575835-6700559	04 57 58.35	-67 00 55.9	...	10.35	0.26	...	...	...	17.0	79.2	3	G5	5	HD 268766
J04580717-7008572	04 58 07.18	-70 08 57.3	...	7.46	0.27	...	...	...	2.4	88.1	3	F7V	17	HD 32571
J04580751-6702465	04 58 07.51	-67 02 46.6	...	9.49	0.34	...	...	...	-0.3	105.0	3	F8	5	HD 268775
J04580802-6748423	04 58 08.02	-67 48 42.4	37269	10.98	0.31	12.32	0.49	0.34	-12.8	75.3	3	...	...	...
J04580912-6659260	04 58 09.13	-66 59 26.1	...	8.66	0.69	...	...	...	43.1	92.3	3	...	...	...
J04581080-6956589	04 58 10.80	-69 56 59.0	37518	10.64	0.61	13.02	0.81	0.45	283.0	57.0	1	K5	5	HD 268878
J04581344-7220375	04 58 13.44	-72 20 37.6	...	10.38	0.76	...	...	...	34.7	88.0	3	...	...	...
J04582055-7229172	04 58 20.55	-72 29 17.3	...	11.63	0.26	...	...	...	-19.5	57.6	3	...	...	...
J04582210-6948133	04 58 22.10	-69 48 13.4	38410	10.83	0.26	12.08	0.46	0.28	22.2	64.8	3	F2	5	HD 268876
J04582210-6954513	04 58 22.10	-69 54 51.4	38421	10.07	0.70	12.71	1.00	0.56	-30.0	109.6	3	...	...	...
J04582503-6837531 ^a	04 58 25.04	-68 37 53.2	38644	10.48	0.69	13.13	1.00	0.57	7.5	55.7	3	...	...	...
J04582541-7203255	04 58 25.41	-72 03 25.6	...	9.47	0.78	...	...	...	-29.6	96.3	3	...	...	...
J04582652-7023456	04 58 26.52	-70 23 45.7	38772	9.30	0.63	11.72	1.01	0.53	22.0	121.5	3	G5	32	HD 268902
J04583118-6827267	04 58 31.19	-68 27 26.7	...	7.84	0.72	...	...	...	7.6	71.6	3	K7	5	HD 268827
J04583373-7046024	04 58 33.74	-70 46 02.4	39355	9.68	0.77	12.49	1.12	0.61	-39.2	125.2	3	...	...	...
J04583409-6745140	04 58 34.10	-67 45 14.0	39376	10.65	0.30	12.00	0.54	0.32	13.2	100.5	3	K	5	HD 268812
J04583662-6850322	04 58 36.63	-68 50 32.2	39602	11.99	0.12	12.47	0.08	0.08	269.5	107.0	1	B8I	30	HD 268845
J04583733-7158485	04 58 37.33	-71 58 48.6	...	11.58	0.26	...	...	...	40.6	54.7	3	...	...	...
J04584553-7032367	04 58 45.53	-70 32 36.8	40284	8.16	0.80	11.14	1.28	0.69	-2.2	86.7	3	K7	5	HD 268914
J04584616-7023481	04 58 46.17	-70 23 48.2	40331	11.33	0.31	12.56	0.46	0.28	15.1	77.0	3	...	...	...
J04585759-7109439	04 58 57.59	-71 09 44.0	...	8.21	0.73	...	...	...	50.2	100.4	3	K2	5	HD 268938
J04590386-6900210	04 59 03.86	-69 00 21.1	41679	9.92	0.53	12.10	0.84	0.47	34.1	98.8	3	K7	5	HD 268866
J04590936-6749174	04 59 09.37	-67 49 17.4	42110	10.89	0.36	12.41	0.61	0.38	14.0	104.2	3	...	...	...
J04592077-7043078	04 59 20.78	-70 43 07.9	...	10.21	0.18	11.01	0.36	...	38.2	26.4	3	A7III	1	HD 268935

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J04592312-7201208	04 59 23.13	-72 01 20.9	...	10.85	0.30	...	...	...	32.0	78.8	3	F5	5	HD 270950
J04592388-6853583	04 59 23.89	-68 53 58.4	43115	10.39	0.76	13.15	1.03	0.60	47.7	95.8	3	...	...	...
J04592576-6952298	04 59 25.76	-69 52 29.8	...	7.60	0.67	...	...	...	10.4	92.9	3	G5:III	1	HD 268909
J04592712-7222428	04 59 27.13	-72 22 42.8	...	10.35	0.74	...	...	...	127.4	72.8	3	...	...	...
J04593334-7224419	04 59 33.35	-72 24 42.0	...	8.82	0.74	...	...	...	-20.6	83.0	3	...	...	...
J04593632-6908004	04 59 36.33	-69 08 00.4	43952	11.25	0.34	12.73	0.62	0.34	51.5	76.7	3	...	...	...
J04593688-7051308	04 59 36.88	-70 51 30.9	...	9.07	0.15	...	...	...	19.0	26.1	3	A8IV	17	HD 32824
J04594195-7022144	04 59 41.95	-70 22 14.4	...	9.88	0.32	...	...	...	2.8	90.1	3	G0	5	HD 268930
J04594309-7006390	04 59 43.09	-70 06 39.0	...	7.92	0.54	...	...	...	4.8	87.5	3	K0	5	HD 268923
J04594353-6831228	04 59 43.53	-68 31 22.8	44436	9.81	0.42	11.46	0.71	0.41	287.3	42.0	1	K0	5	HD 268865
J04594362-6826049	04 59 43.63	-68 26 05.0	44439	10.39	0.69	13.02	1.02	0.59	40.5	75.0	3	...	...	...
J04594625-7126334	04 59 46.25	-71 26 33.5	...	10.01	0.62	...	...	...	14.9	78.9	3	...	...	...
J04594720-6713273	04 59 47.21	-67 13 27.4	44693	11.24	0.33	12.61	0.48	0.31	39.0	64.4	3	...	...	...
J04594824-7221460	04 59 48.25	-72 21 46.0	...	10.40	0.37	...	...	...	8.7	74.0	3	...	...	...
J05000225-6839181	05 00 02.26	-68 39 18.1	45746	10.70	0.50	12.61	0.81	0.46	10.0	80.4	3	...	...	...
J05000447-6859267	05 00 04.48	-68 59 26.8	45879	10.00	0.61	12.34	0.99	0.55	-0.4	79.8	3	...	...	...
J05000756-6826599	05 00 07.57	-68 26 60.0	46080	9.43	0.60	12.23	1.04	0.57	330.9	41.1	1	G0Ia	10	RMC 69
J05001358-6758004	05 00 13.58	-67 58 00.4	46469	9.34	0.78	12.15	1.16	0.63	62.9	80.0	3	...	...	...
J05001815-7118039	05 00 18.15	-71 18 04.0	...	10.71	0.58	...	...	...	37.1	86.7	3	...	...	...
J05001831-6718308	05 00 18.31	-67 18 30.8	46776	10.99	0.36	12.41	0.59	0.31	10.7	83.6	3	...	...	...
J05002064-7101499	05 00 20.64	-71 01 49.9	46921	11.08	0.28	12.43	0.52	0.32	20.9	81.0	3	F5	5	HD 268958
J05002106-6812333	05 00 21.06	-68 12 33.3	...	9.44	0.32	...	...	...	61.6	116.6	3	K0	5	HD 268871
J05002812-6914557	05 00 28.13	-69 14 55.7	47442	10.82	0.56	13.06	0.93	0.51	28.7	65.9	3	...	...	...
J05003092-7018500	05 00 30.92	-70 18 50.1	47622	11.58	0.27	12.78	0.43	0.25	4.3	23.7	3	...	...	...
J05003258-7041569	05 00 32.58	-70 41 56.9	...	6.56	0.67	...	...	...	-20.4	87.2	3	G5	5	HD 268953
J05003613-7123124	05 00 36.13	-71 23 12.4	...	9.95	0.64	...	...	...	83.7	109.7	3	...	...	...
J05003747-6724005	05 00 37.48	-67 24 00.6	48063	10.09	0.69	12.73	1.16	0.62	24.3	76.3	3	...	...	...
J05004467-7031412	05 00 44.68	-70 31 41.3	...	7.66	0.80	...	...	...	53.9	116.3	3	K5	5	HD 268951
J05004782-6837461	05 00 47.83	-68 37 46.1	48787	12.22	0.07	12.61	0.08	0.11	280.1	108.5	1	B8I	30	Sk-68 24
J05004798-7227017	05 00 47.99	-72 27 01.8	...	10.74	0.48	...	...	...	-0.4	95.8	3	...	...	...
J05004810-6620417	05 00 48.11	-66 20 41.7	...	9.29	0.22	...	...	...	12.7	43.7	3	F5	5	HD 268821
J05005381-7133455	05 00 53.81	-71 33 45.5	...	9.57	0.61	...	...	...	23.2	130.7	3	K5	5	HD 268986
J05005481-7129233	05 00 54.81	-71 29 23.4	...	9.41	0.60	...	...	...	-11.5	118.1	3	K2	5	HD 268983
J05005516-6638143	05 00 55.17	-66 38 14.4	...	11.36	0.25	...	...	...	275.5	67.0	1	...	...	...
J05005628-6729245	05 00 56.29	-67 29 24.6	49377	10.96	0.34	12.27	0.52	0.32	6.3	79.6	3	F8	32	[FD70] S 27
J05010050-6724087	05 01 00.50	-67 24 08.8	49668	9.71	0.68	12.20	1.04	0.55	57.5	129.0	3	...	...	...
J05010186-7014032	05 01 01.87	-70 14 03.2	49764	11.35	0.26	12.57	0.46	0.27	14.1	67.4	3	...	...	...
J05010315-7112551	05 01 03.15	-71 12 55.1	...	9.02	0.75	...	...	...	53.6	125.3	3	K5	5	HD 268977
J05010907-6625568	05 01 09.07	-66 25 56.9	...	9.75	0.75	...	...	...	9.9	71.6	3	...	...	...
J05011092-6640032	05 01 10.93	-66 40 03.3	...	8.67	0.81	...	...	...	-0.7	123.8	3	...	...	...
J05011482-7107478	05 01 14.82	-71 07 47.8	...	8.05	0.75	...	...	...	-17.3	78.9	3	K2	5	HD 268979
J05011649-6721038	05 01 16.50	-67 21 03.9	50766	11.04	0.35	12.48	0.57	0.33	62.6	99.4	3	...	...	...
J05011887-7037492	05 01 18.87	-70 37 49.2	...	11.81	0.05	12.00	-0.01	...	231.8	88.9	1	B8I	30	HD 268964
J05012485-6642274	05 01 24.86	-66 42 27.4	...	11.06	0.33	...	...	...	13.7	108.9	3	M0	5	HD 268842
J05012703-7040256	05 01 27.04	-70 40 25.6	...	7.48	0.74	...	...	...	24.1	69.4	3	K7	5	HD 268968
J05012723-6706191	05 01 27.23	-67 06 19.2	...	7.45	0.79	...	...	...	22.3	104.8	3	K2	5	HD 268860
J05012946-6617322	05 01 29.46	-66 17 32.2	...	11.13	0.40	...	...	...	1.9	103.2	3	...	...	...
J05013007-6636331	05 01 30.07	-66 36 33.1	...	10.28	0.29	...	...	...	20.9	145.9	3	K0	5	HD 268838
J05013223-6810430	05 01 32.24	-68 10 43.1	...	11.25	0.09	11.67	0.13	...	276.0	42.0	1	BC2Ia	13	Sk-68 26
J05013273-6813144	05 01 32.73	-68 13 14.5	51871	11.98	0.14	12.55	0.15	0.13	303.5	43.4	1	B6I	30	Sk-68 27

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05013336-7023026	05 01 33.37	-70 23 02.7	51922	10.62	0.66	13.06	0.95	0.51	90.5	145.4	3	...	...	...
J05013419-6612519	05 01 34.20	-66 12 51.9	...	10.05	0.89	...	...	...	303.1	49.3	1	...	...	...
J05013589-6806393	05 01 35.90	-68 06 39.4	52093	10.67	0.31	12.04	0.53	0.33	18.6	108.3	3	...	...	...
J05014071-7054588	05 01 40.71	-70 54 58.8	52385	10.17	0.92	13.76	1.67	0.83	244.4	62.0	1	...	...	...
J05014091-6614300	05 01 40.92	-66 14 30.1	...	10.07	0.61	...	...	...	96.5	92.8	3	...	...	...
J05014221-7024050	05 01 42.22	-70 24 05.0	...	10.05	0.33	...	...	...	13.3	105.4	3	G5	5	HD 268965
J05014519-7035523	05 01 45.20	-70 35 52.3	...	11.44	0.04	11.64	0.02	...	238.7	109.0	1	B6I	30	HD 268971
J05014900-6755249	05 01 49.00	-67 55 24.9	52950	10.60	0.37	12.21	0.61	0.36	70.2	80.3	3	...	...	...
J05014961-7110106	05 01 49.62	-71 10 10.7	...	10.59	0.37	...	...	...	-11.5	76.7	3	G0	5	HD 268994
J05015118-6703032	05 01 51.18	-67 03 03.2	...	10.46	0.76	...	...	...	0.1	72.0	3	...	...	...
J05015175-6620208	05 01 51.76	-66 20 20.9	...	9.35	0.65	...	...	...	17.5	106.7	3	K5	5	HD 268843
J05020842-7043361	05 02 08.43	-70 43 36.1	54291	9.18	0.65	11.83	1.10	0.60	-2.6	134.0	3	...	...	...
J05021137-7059469	05 02 11.37	-70 59 47.0	54469	11.24	0.32	12.71	0.79	0.29	-2.1	93.1	3	...	...	...
J05021293-6615496	05 02 12.93	-66 15 49.7	...	10.16	0.59	...	...	...	-8.2	146.8	3	K5	5	HD 268857
J05021705-6844374	05 02 17.06	-68 44 37.4	54858	11.36	0.26	12.68	0.49	0.32	7.5	58.0	3	...	...	...
J05022209-7140228	05 02 22.09	-71 40 22.8	...	9.79	0.69	...	...	...	23.4	111.8	3	...	...	...
J05022433-6643026	05 02 24.33	-66 43 02.7	...	8.42	0.20	...	...	...	11.5	47.5	3	F0Vsr	17	HD 33043
J05022488-6707204	05 02 24.89	-67 07 20.5	55389	9.23	0.68	11.66	0.98	0.52	-25.8	87.7	3	K7	5	HD 268889
J05022521-6728470	05 02 25.21	-67 28 47.0	55416	10.09	0.63	12.47	0.95	0.53	-5.1	151.5	3	...	...	...
J05022543-6920035	05 02 25.43	-69 20 03.6	...	9.30	0.31	...	...	...	20.9	122.6	3	G0	5	HD 268952
J05022819-7121405	05 02 28.20	-71 21 40.6	...	11.22	0.36	...	...	...	52.6	95.8	3	...	...	...
J05022839-7209032	05 02 28.40	-72 09 03.3	...	9.94	0.79	...	...	...	222.1	79.0	1	...	...	...
J05022973-7135251	05 02 29.73	-71 35 25.2	...	11.14	0.31	...	...	...	5.3	67.0	3	...	...	...
J05023255-7213566	05 02 32.55	-72 13 56.6	...	11.01	0.31	...	...	...	41.5	72.4	3	G	5	HD 270985
J05023574-6731535	05 02 35.74	-67 31 53.5	56146	11.12	0.38	12.62	0.54	0.35	19.8	129.3	3	...	...	...
J05023745-6609260	05 02 37.45	-66 09 26.0	...	11.43	0.30	...	...	...	-0.2	78.2	3	...	...	...
J05024046-7203254	05 02 40.46	-72 03 25.4	...	10.15	0.51	...	...	...	-20.9	84.8	3	...	...	...
J05024114-6858437	05 02 41.14	-68 58 43.8	56506	10.25	0.72	13.03	1.19	0.58	38.9	66.8	3	...	...	...
J05024183-6750352 ^a	05 02 41.83	-67 50 35.2	...	6.09	0.55	8.26	0.97	...	1.8	96.7	3	G8/K0III	17	HD 33117
J05024954-6615488	05 02 49.55	-66 15 48.9	...	9.65	0.86	...	...	...	100.5	72.3	3	...	...	...
J05025036-7019420	05 02 50.36	-70 19 42.0	57161	11.72	0.24	12.94	0.48	0.30	15.4	46.4	3	...	...	...
J05025062-7230371	05 02 50.63	-72 30 37.2	...	11.03	0.32	...	...	...	-3.5	128.9	3	...	...	...
J05025663-6901376	05 02 56.64	-69 01 37.6	57617	10.62	0.30	12.02	0.56	0.34	10.4	81.4	3	K5	5	HD 268955
J05025851-6617116	05 02 58.52	-66 17 11.6	...	8.54	0.59	...	...	...	-3.4	147.6	3	K	5	HD 268875
J05030138-6627392	05 03 01.38	-66 27 39.2	...	12.06	0.04	12.33	0.03	...	300.2	100.6	1	A0I	30	Sk-66 49
J05030447-6811146	05 03 04.48	-68 11 14.7	58119	10.46	0.66	13.07	1.10	0.56	53.1	86.1	3	...	...	...
J05030619-7125286	05 03 06.20	-71 25 28.6	...	10.96	0.38	...	...	...	9.1	70.4	3	...	...	...
J05030897-6626555	05 03 08.97	-66 26 55.5	...	11.56	0.23	...	...	...	303.3	42.2	1	F2I:	30	GV 518
J05031088-6756129	05 03 10.88	-67 56 13.0	...	7.37	0.81	...	...	...	65.0	73.0	3	K7	5	HD 268936
J05031360-6833353	05 03 13.60	-68 33 35.4	...	11.47	0.06	11.76	0.07	...	250.6	78.2	1	A0/2Ia	19	HD 268949
J05031364-7025569	05 03 13.64	-70 25 57.0	...	7.64	0.61	...	...	...	11.5	90.1	3	K0	5	HD 269004
J05031381-7100168 ^a	05 03 13.82	-71 00 16.8	58725	10.80	0.28	12.16	0.53	0.34	31.9	79.1	3	G0	5	HD 269022
J05031592-6637298	05 03 15.92	-66 37 29.8	...	11.60	0.23	...	...	...	267.5	45.7	1	F0I:	30	GV 520
J05031821-6659502	05 03 18.22	-66 59 50.3	...	10.03	0.70	...	...	...	30.5	75.3	3	...	...	...
J05032156-7108148	05 03 21.57	-71 08 14.8	...	11.49	0.28	...	...	...	-4.3	73.6	3	...	...	...
J05032232-6622112	05 03 22.32	-66 22 11.2	...	11.04	0.37	...	...	...	306.8	51.6	1	...	...	...
J05032398-6855320	05 03 23.98	-68 55 32.1	59384	11.93	0.14	12.50	0.12	0.10	248.3	93.8	1	A3I	30	Sk-68 29a
J05032538-6732526	05 03 25.39	-67 32 52.6	...	9.77	0.30	...	...	...	14.3	110.6	3	G5	5	HD 268929
J05032877-6843147	05 03 28.77	-68 43 14.8	59662	11.11	0.43	12.94	0.77	0.40	41.0	69.5	3	...	...	...
J05033432-6641420	05 03 34.33	-66 41 42.0	...	9.18	0.66	...	...	...	59.4	111.6	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05033671-6925355	05 03 36.71	-69 25 35.5	...	10.68	0.20	11.71	0.43	...	36.1	50.1	3	F4V	1	HD 268980
J05034119-6702321	05 03 41.20	-67 02 32.1	...	10.20	0.56	...	...	...	-4.6	112.5	3	...	...	...
J05034147-6914453	05 03 41.47	-69 14 45.3	60492	9.05	0.71	11.72	1.16	0.59	73.4	67.8	3	K5	5	HD 268975
J05034329-6814270	05 03 43.30	-68 14 27.1	60606	11.38	0.30	12.83	0.54	0.39	1.7	67.5	3	...	...	...
J05034470-6906016	05 03 44.70	-69 06 01.7	60701	12.18	0.10	12.53	0.05	0.09	299.8	48.0	1	OB	31	Sk-69 61
J05035608-6954242	05 03 56.09	-69 54 24.3	...	8.16	0.77	...	...	...	26.9	115.9	3	K5	5	HD 269001
J05035614-7136183	05 03 56.15	-71 36 18.4	...	11.31	0.27	...	...	...	5.2	59.1	3	G	5	HD 269055
J05035658-6641567	05 03 56.59	-66 41 56.8	...	9.83	0.72	...	...	...	53.9	65.6	3	...	...	...
J05040131-6921564	05 04 01.31	-69 21 56.4	61849	10.10	0.76	13.09	1.21	0.64	22.6	92.9	3	...	...	...
J05040504-6616065	05 04 05.05	-66 16 06.5	...	11.83	0.16	...	...	...	-12.1	44.5	3	...	...	...
J05040816-6917238	05 04 08.16	-69 17 23.8	62255	10.44	0.64	12.97	1.08	0.54	-2.4	94.4	3	...	...	...
J05040868-7040487	05 04 08.69	-70 40 48.8	...	6.68	0.76	9.57	1.23	...	14.5	84.0	3	K0	5	HD 269028
J05040943-6901221	05 04 09.44	-69 01 22.2	62318	10.17	0.59	12.54	0.97	0.52	-20.5	83.8	3	...	...	...
J05041039-6713193	05 04 10.39	-67 13 19.3	...	9.15	0.80	...	...	...	-30.8	101.7	3	...	...	...
J05041112-6707002	05 04 11.13	-67 07 00.2	...	8.94	0.66	...	...	...	31.4	82.1	3	...	...	...
J05041356-6625585	05 04 13.56	-66 25 58.5	...	10.34	0.78	...	...	...	312.9	30.4	1	...	...	HD 33294
J05041389-7209320	05 04 13.90	-72 09 32.0	...	11.07	0.34	...	...	...	-57.1	81.6	3	...	...	...
J05041492-6715052	05 04 14.92	-67 15 05.2	...	10.36	0.25	10.98	0.09	...	239.9	46.1	1	Beq	35	HD 268939
J05041540-7054331	05 04 15.40	-70 54 33.1	62623	10.59	0.68	13.24	1.13	0.60	63.8	84.0	3	...	...	...
J05041613-6707257	05 04 16.13	-67 07 25.7	...	12.50	0.01	12.61	-0.03	...	310.9	87.1	1	B7:I	30	Sk-67 42
J05041858-7041189	05 04 18.58	-70 41 18.9	62789	12.25	0.07	12.65	0.08	0.09	228.3	76.8	1	B9Ib	37	SOI 765
J05042141-6626050	05 04 21.42	-66 26 05.0	...	12.13	0.04	12.53	0.10	...	286.7	68.1	1	A2I	30	Sk-66 55
J05042167-7027267	05 04 21.68	-70 27 26.7	62961	10.78	0.58	13.16	0.94	0.58	4.0	77.5	3	...	...	...
J05042347-6856249	05 04 23.48	-68 56 25.0	63073	9.46	0.68	12.20	1.12	0.59	35.1	96.2	3	...	...	...
J05042355-7124111	05 04 23.55	-71 24 11.2	...	10.60	0.50	...	...	...	37.9	79.9	3	...	...	...
J05042494-7105446	05 04 24.94	-71 05 44.7	63162	11.39	0.30	12.83	0.55	0.32	1.7	58.5	3	...	...	...
J05042677-6717427	05 04 26.78	-67 17 42.8	...	10.68	0.02	10.88	0.05	...	238.0	14.2	1	A0V	1	HD 268943
J05042886-7032447	05 04 28.86	-70 32 44.8	63384	10.85	0.39	12.53	0.63	0.40	71.3	44.3	3	...	...	...
J05043034-7159150	05 04 30.34	-71 59 15.0	...	10.91	0.30	...	...	...	30.1	30.3	3	G0	32	HD 271005
J05043664-7036190	05 04 36.65	-70 36 19.1	...	7.21	0.65	...	...	...	30.6	110.7	3	K0	5	HD 269041
J05044445-6614500	05 04 44.46	-66 14 50.1	...	11.29	0.33	...	...	...	61.6	109.5	3	...	...	...
J05044779-6611317	05 04 47.80	-66 11 31.7	...	9.94	0.40	...	...	...	52.1	146.8	3	K0	5	HD 268926
J05045017-6807523	05 04 50.17	-68 07 52.4	...	11.97	0.08	12.01	-0.02	...	243.2	39.8	1	B2.5Ia	13	Sk-68 39
J05045155-7053188	05 04 51.56	-70 53 18.9	64556	11.14	0.33	12.63	0.63	0.33	15.4	56.2	3	...	...	...
J05045214-6903464	05 04 52.15	-69 03 46.4	64596	11.06	0.39	12.73	0.65	0.36	272.6	41.6	1	...	...	...
J05045266-7055185	05 04 52.66	-70 55 18.6	64622	10.80	0.28	12.19	0.53	0.33	-13.2	101.5	3	G5	5	HD 269056
J05045348-6910078	05 04 53.49	-69 10 07.9	...	7.12	0.56	...	...	...	-29.3	108.1	3	K0V	17	HD 33487
J05045385-7156108	05 04 53.86	-71 56 10.8	...	10.33	0.62	...	...	...	58.8	46.5	3	...	...	...
J05045408-6850110	05 04 54.09	-68 50 11.1	64705	10.58	0.29	12.06	0.56	0.37	12.2	58.2	3	...	...	...
J05045414-6841068	05 04 54.14	-68 41 06.8	...	10.16	0.21	...	...	...	1.6	43.7	3	F2	5	HD 268989
J05045570-6644232	05 04 55.70	-66 44 23.2	...	10.77	0.57	...	...	...	-4.9	98.0	3	...	...	...
J05051047-7041149	05 05 10.48	-70 41 15.0	65578	9.98	0.59	12.36	0.94	0.54	122.2	126.5	3	...	...	...
J05051222-6644126	05 05 12.23	-66 44 12.6	...	9.96	0.07	10.29	0.09	...	288.8	88.0	1	A0Ia	12	HD 268946
J05051239-6839070	05 05 12.39	-68 39 07.0	65675	11.44	0.26	12.81	0.54	0.31	19.0	122.4	3	...	...	...
J05051357-7025466	05 05 13.57	-70 25 46.6	65727	10.90	0.26	12.19	0.52	0.30	21.8	123.9	3	...	...	...
J05051496-6639164	05 05 14.97	-66 39 16.5	...	10.26	0.63	...	...	...	42.1	88.9	3	...	...	...
J05051746-7202553	05 05 17.46	-72 02 55.4	...	9.99	0.32	...	...	...	16.7	48.4	3	G5	5	HD 271017
J05051847-7205244	05 05 18.48	-72 05 24.4	...	10.60	0.44	...	...	...	27.8	92.3	3	...	...	...
J05051863-7030379	05 05 18.64	-70 30 38.0	65975	10.96	0.31	12.42	0.55	0.31	48.5	99.1	3	...	...	...
J05052014-6635104	05 05 20.14	-66 35 10.4	...	9.96	0.63	...	...	...	8.9	56.6	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05052070-7044306	05 05 20.71	-70 44 30.7	...	11.06	0.11	11.40	0.04	...	248.8	52.4	1	B2.5	30	HD 269062
J05052195-6707148	05 05 21.96	-67 07 14.8	...	11.62	0.20	12.50	0.26	...	255.3	50.6	1	A9I	30	GV 193
J05052610-6844325	05 05 26.11	-68 44 32.6	66378	9.89	0.69	12.57	1.18	0.59	27.6	90.4	3	...	...	...
J05052697-6743135	05 05 26.97	-67 43 13.6	...	8.36	0.70	...	...	...	39.4	34.5	3	K2	5	HD 268974
J05053047-6815217	05 05 30.47	-68 15 21.8	...	9.05	0.29	...	...	...	23.6	116.9	3	G0	5	HD 268992
J05053431-7206214	05 05 34.32	-72 06 21.4	...	6.67	0.63	...	...	...	44.4	90.6	3	G8III	17	HD 33746
J05054179-6817016	05 05 41.80	-68 17 01.6	...	11.10	0.23	...	...	...	31.1	37.6	3	...	...	...
J05054362-6732065	05 05 43.62	-67 32 06.6	...	9.85	0.74	...	...	...	-10.5	95.5	3	...	...	...
J05054558-6939251	05 05 45.59	-69 39 25.2	67416	10.32	0.53	12.50	0.93	0.47	32.4	119.4	3	K7	5	HD 269040
J05055011-6636405	05 05 50.12	-66 36 40.5	...	10.74	0.20	...	...	...	22.4	76.0	3	A7	5	HD 268956
J05055012-6818272	05 05 50.12	-68 18 27.3	...	9.34	0.79	...	...	...	42.4	45.6	3	...	...	...
J05055203-7113026	05 05 52.04	-71 13 02.6	...	10.14	0.22	...	...	...	-0.6	41.6	3	F2	5	HD 269086
J05055231-6835363	05 05 52.32	-68 35 36.4	67763	10.75	0.45	12.70	0.88	0.49	44.1	83.1	3	...	...	...
J05055395-6810505	05 05 53.96	-68 10 50.5	...	11.39	0.27	11.95	-0.04	...	326.9	24.9	1	B3Ie	30	Sk-68 42
J05055405-6840171	05 05 54.06	-68 40 17.1	67857	12.43	0.00	12.66	0.07	0.03	255.5	70.9	1	A2:I	30	Sk-68 44
J05055551-6753108	05 05 55.51	-67 53 10.8	...	8.50	0.18	9.13	0.19	...	229.0	44.9	1	A2Ia+	37	HD 33579
J05055813-7032056	05 05 58.13	-70 32 05.6	...	9.13	0.43	...	...	...	263.0	47.3	1	K5	5	HD 269070
J05060049-6713152	05 06 00.50	-67 13 15.2	...	11.56	0.27	...	...	...	21.1	37.1	3	...	...	...
J05060233-6614001	05 06 02.34	-66 14 00.2	...	8.70	0.55	...	...	...	15.0	126.0	3	K2	5	HD 268954
J05060351-7039362	05 06 03.51	-70 39 36.3	68322	11.02	0.30	12.36	0.49	0.32	29.8	86.7	3	...	...	...
J05060887-7115260	05 06 08.88	-71 15 26.1	...	10.64	0.61	12.26	0.57	...	250.1	44.5	1	...	...	HV 2338
J05060899-7003221	05 06 09.00	-70 03 22.1	68606	10.40	0.63	12.74	0.94	0.52	23.5	84.1	3	...	...	...
J05061164-7036052	05 06 11.65	-70 36 05.3	...	6.94	0.71	...	...	...	21.6	105.7	3	K0/2	17	HD 33745
J05061392-6755506	05 06 13.93	-67 55 50.7	...	10.28	0.68	...	...	...	55.6	160.3	3	...	...	...
J05061481-6640459	05 06 14.81	-66 40 45.9	...	10.86	0.28	12.15	0.51	...	282.1	58.5	1	F5:I	10	RMC 77
J05061651-6822068	05 06 16.52	-68 22 06.8	...	10.29	0.84	...	...	...	288.5	47.8	1	...	...	...
J05061866-6723011	05 06 18.66	-67 23 01.1	...	9.60	0.13	...	...	...	-14.1	16.2	3	A2IV	17	HD 33631
J05061885-6956532	05 06 18.85	-69 56 53.2	69094	11.33	0.32	12.98	0.68	0.38	35.7	78.8	3	...	...	...
J05061955-6956053	05 06 19.55	-69 56 05.4	...	8.56	0.60	...	...	...	-40.8	140.5	3	K0	5	HD 269063
J05062125-7210234	05 06 21.26	-72 10 23.5	...	9.28	0.35	...	...	...	2.6	87.6	3	G0	5	HD 271030a
J05062380-6903000	05 06 23.81	-69 03 00.0	...	8.14	0.64	...	...	...	-10.8	108.0	3	K0	5	HD 269036
J05062578-6823166	05 06 25.79	-68 23 16.7	...	9.66	0.62	...	...	...	20.0	143.1	3	...	...	...
J05062723-7210490	05 06 27.24	-72 10 49.0	...	10.91	0.30	...	...	...	39.8	63.3	3	...	...	...
J05062746-6830403	05 06 27.46	-68 30 40.4	69520	10.67	0.35	11.95	0.25	0.20	376.1	23.2	1	B8Ie	30	Sk-68 48
J05062830-6635225	05 06 28.30	-66 35 22.5	...	10.67	0.30	...	...	...	15.5	80.3	3	G0	5	HD 268970
J05063379-6724552	05 06 33.80	-67 24 55.2	...	10.97	0.30	...	...	...	-2.7	57.4	3	...	...	...
J05063826-6829129	05 06 38.27	-68 29 12.9	...	9.50	0.64	...	...	...	37.1	87.7	3	...	...	...
J05064465-6931208	05 06 44.65	-69 31 20.9	70338	8.51	0.70	11.21	1.15	0.60	6.1	78.3	3	K5	5	HD 269060
J05064540-6824388	05 06 45.40	-68 24 38.9	...	10.55	0.31	...	...	...	7.7	84.5	3	G2Ia	37	SOI 349
J05064587-7005563	05 06 45.88	-70 05 56.4	...	6.88	0.71	9.65	1.24	...	29.6	70.6	3	K0III	1	HD 269076
J05064761-6803209	05 06 47.62	-68 03 21.0	...	11.16	0.41	...	...	...	29.7	78.9	3	...	...	...
J05064796-7002134	05 06 47.97	-70 02 13.4	70514	10.52	0.52	12.48	0.82	0.43	254.9	62.1	1	M	5	HD 269075
J05064867-6944313	05 06 48.67	-69 44 31.3	70561	9.47	0.80	12.57	1.30	0.68	-18.1	91.5	3	...	...	...
J05070045-6828344	05 07 00.46	-68 28 34.4	...	7.93	0.61	...	...	...	-5.9	158.2	3	K0	5	HD 269035
J05070247-7146381	05 07 02.48	-71 46 38.2	...	10.79	0.47	...	...	...	0.7	88.2	3	...	...	...
J05070968-6755033	05 07 09.69	-67 55 03.4	...	8.47	0.61	...	...	...	83.4	109.5	3	G0	5	HD 269026
J05071143-6957469	05 07 11.44	-69 57 47.0	71662	11.24	0.31	12.68	0.59	0.36	-11.7	88.4	3	...	...	...
J05071597-6853006	05 07 15.98	-68 53 00.6	71882	10.22	0.43	12.06	0.78	0.39	274.5	60.4	1	...	...	...
J05071706-6850335	05 07 17.06	-68 50 33.5	71935	11.12	0.30	12.46	0.48	0.30	1.9	74.4	3	...	...	...
J05071891-6825376	05 07 18.91	-68 25 37.6	...	11.95	0.16	12.79	0.28	...	250.4	61.5	1	F0I	30	SOI 351

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05072009-7027152	05 07 20.10	-70 27 15.3	72088	11.41	0.25	13.65	1.05	0.57	261.6	63.6	1	...	...	...
J05072232-7129213	05 07 22.33	-71 29 21.3	...	8.36	0.70	...	...	...	13.7	80.1	3	K5	5	HD 269124
J05072622-6755328	05 07 26.23	-67 55 32.9	...	10.63	0.23	...	...	...	17.3	45.7	3	F5	5	HD 269031
J05073141-6821243	05 07 31.41	-68 21 24.4	...	10.45	0.28	...	...	...	-4.8	92.3	3	F5	5	HD 269049
J05073459-6947287	05 07 34.59	-69 47 28.7	72847	11.58	0.27	12.91	0.55	0.30	25.9	102.6	3	...	...	...
J05073584-6902371	05 07 35.84	-69 02 37.2	72899	10.48	0.68	13.12	1.08	0.58	37.3	79.7	3	...	...	...
J05073688-6935579	05 07 36.89	-69 35 57.9	72967	11.30	0.35	12.75	0.53	0.34	23.8	100.8	3	...	...	...
J05074534-6909446	05 07 45.35	-69 09 44.7	73369	10.02	0.86	13.44	1.49	0.76	245.1	56.5	1	...	...	...
J05074546-6939324	05 07 45.47	-69 39 32.4	73377	9.74	0.73	12.54	1.14	0.61	-22.8	80.0	3	...	...	...
J05075327-7129315	05 07 53.28	-71 29 31.6	...	11.22	0.21	...	...	...	19.9	72.3	3	...	...	...
J05075638-7121489	05 07 56.38	-71 21 49.0	...	10.29	0.46	...	...	...	-23.9	85.7	3	K0	5	HD 269136
J05080173-7111511	05 08 01.73	-71 11 51.1	...	10.37	0.67	...	...	...	-0.8	105.2	3	...	...	...
J05080536-6946046	05 08 05.37	-69 46 04.7	74395	10.65	0.58	12.82	0.91	0.46	37.3	29.5	3	...	...	...
J05080620-6913427	05 08 06.20	-69 13 42.8	...	9.80	0.32	...	...	...	6.1	83.3	3	G5	5	HD 269084
J05081113-6909484	05 08 11.13	-69 09 48.4	74723	11.33	0.35	12.94	0.67	0.39	-10.4	72.7	3	...	...	...
J05081485-7029291	05 08 14.85	-70 29 29.2	74900	9.85	0.67	12.46	1.05	0.57	72.9	79.1	3	...	...	...
J05081558-7028385	05 08 15.59	-70 28 38.5	74940	11.41	0.29	12.72	0.49	0.30	-4.7	49.4	3	...	...	...
J05081817-7014578	05 08 18.17	-70 14 57.8	75076	10.38	0.33	11.82	0.56	0.33	41.7	80.7	3	F8	5	HD 269103
J05081997-7137575 ^a	05 08 19.98	-71 37 57.6	...	11.30	0.22	...	...	...	-2.9	64.9	3	...	...	...
J05082121-6901178	05 08 21.21	-69 01 17.8	75242	10.73	0.47	12.64	0.78	0.41	-36.7	134.3	3	...	...	...
J05082421-6828344	05 08 24.21	-68 28 34.4	...	8.55	0.22	...	...	...	16.1	42.5	3	F0V	17	HD 339704
J05082876-7153401	05 08 28.76	-71 53 40.2	...	11.23	0.34	...	...	...	33.5	44.2	3	...	...	...
J05083220-6832493	05 08 32.21	-68 32 49.3	...	8.28	0.69	...	...	...	12.6	89.2	3	K7	5	HD 269079
J05083388-7018189	05 08 33.89	-70 18 18.9	76023	10.34	0.71	13.08	1.11	0.60	87.1	102.1	3	...	...	...
J05084174-6816359	05 08 41.74	-68 16 36.0	...	10.58	0.50	...	...	...	22.1	117.2	3	...	...	...
J05085559-6916215	05 08 55.60	-69 16 21.6	77487	11.61	0.15	12.43	0.23	0.17	223.2	52.4	1	F0I	30	HD 269096
J05085992-7039001	05 08 59.92	-70 39 00.2	77772	9.60	0.67	12.21	1.10	0.59	33.7	82.0	3	...	...	...
J05090395-7012117	05 09 03.96	-70 12 11.7	78057	9.91	0.59	12.24	0.91	0.48	-26.8	89.6	3	...	...	...
J05090481-7037021	05 09 04.82	-70 37 02.2	...	8.55	0.69	...	...	...	-10.7	129.7	3	K7	5	HD 269141
J05090637-6907314	05 09 06.38	-69 07 31.4	78230	10.23	0.57	12.53	0.96	0.50	14.9	99.0	3	G8IV(e?)	7	...
J05090871-6859074	05 09 08.72	-68 59 07.5	78383	10.77	0.36	12.35	0.67	0.35	274.2	46.2	1	...	...	...
J05091058-6936121	05 09 10.58	-69 36 12.2	...	8.91	0.41	10.75	0.90	...	247.3	45.2	1	G0:Ia	1	HD 269110
J05091941-6906286	05 09 19.42	-69 06 28.6	79077	10.94	0.41	12.62	0.70	0.37	11.4	76.5	3	...	...	...
J05092015-7027269	05 09 20.15	-70 27 27.0	79117	10.71	0.51	12.67	0.65	0.34	226.7	65.8	1	...	...	HV 909
J05092049-6832077	05 09 20.50	-68 32 07.7	...	10.23	0.31	...	...	...	6.6	86.0	3	K2	5	HD 269090
J05092399-7226205	05 09 24.00	-72 26 20.5	...	9.69	0.67	...	...	...	-5.3	139.9	3	...	...	...
J05092628-6909340	05 09 26.28	-69 09 34.0	...	8.81	0.10	9.36	0.20	...	43.6	15.6	3	A3:V	1	HD 34144
J05093397-6824413	05 09 33.97	-68 24 41.3	...	12.28	0.01	12.54	0.02	...	258.2	89.5	1	B8I	30	Sk-68 56
J05093538-6914591	05 09 35.38	-69 14 59.2	80111	9.00	0.67	11.47	1.02	0.53	32.0	116.3	3	G5	5	HD 269115
J05093856-6918373	05 09 38.56	-69 18 37.4	...	11.70	0.13	...	...	...	245.8	81.3	1	A2I	30	Sk-69 67
J05094118-7120287	05 09 41.19	-71 20 28.8	...	11.00	0.42	...	...	...	0.3	120.9	3	...	...	...
J05094284-6826107	05 09 42.84	-68 26 10.7	...	8.46	0.66	...	...	...	18.4	85.9	3	K7	5	HD 269095
J05094518-6846099	05 09 45.19	-68 46 09.9	...	12.05	0.02	12.03	-0.03	...	297.5	40.5	1	B3Iab	13	HD 269101
J05094594-7137462	05 09 45.95	-71 37 46.3	...	10.93	0.40	...	...	...	8.9	27.0	3	...	...	...
J05094715-7033072	05 09 47.16	-70 33 07.3	...	7.20	0.69	...	...	...	-10.6	129.6	3	G5	5	HD 269152
J05094866-6752064	05 09 48.66	-67 52 06.5	...	8.64	0.32	...	...	...	31.1	108.0	3	G2/3V	17	HD 34143
J05094966-6919394	05 09 49.67	-69 19 39.5	81015	11.11	0.31	12.60	0.59	0.37	34.1	92.2	3	...	...	...
J05095033-7029260	05 09 50.33	-70 29 26.1	81052	10.61	0.39	12.13	0.56	0.33	22.6	79.9	3	...	...	...
J05095304-6855380	05 09 53.05	-68 55 38.0	...	11.74	0.07	12.07	-0.05	...	262.0	36.6	1	B0.7Ia+	13	HD 269116
J05095880-6907018	05 09 58.81	-69 07 01.9	81591	12.53	0.02	12.56	0.02	0.08	227.9	22.4	1	B1II	20	Sk-69 68

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s ⁻¹)	Category ^d	Class	Ref. ^e	Comments
J05095925-7025001	05 09 59.26	-70 25 00.1	81614	8.85	0.80	11.96	1.38	0.71	51.6	57.3	3	...	...	...
J05100098-6854089	05 10 00.99	-68 54 08.9	81748	11.30	0.22	12.37	0.36	0.24	209.3	37.2	1	F2I	26	...
J05100666-7027076	05 10 06.67	-70 27 07.7	...	6.67	0.83	...	...	...	40.8	72.8	3	K5	5	HD 269162
J05100803-7158003	05 10 08.03	-71 58 00.4	...	11.22	0.31	...	...	...	14.1	59.3	3	F2	32	HD 271075
J05101368-7019158	05 10 13.68	-70 19 15.9	82588	10.61	0.38	12.14	0.62	0.35	22.9	112.9	3	F8	5	HD 269159
J05101592-6823529	05 10 15.92	-68 23 52.9	...	10.76	0.31	...	...	...	-20.2	86.1	3	...	...	...
J05101900-6832326	05 10 19.01	-68 32 32.7	82980	9.10	0.73	11.85	1.09	0.57	31.3	75.7	3	K7	5	HD 269119
J05102138-6825171	05 10 21.38	-68 25 17.2	...	11.65	0.01	11.77	-0.01	...	308.5	113.0	1	B6I	30	HD 269117
J05102183-6727134	05 10 21.83	-67 27 13.4	...	10.80	0.32	...	...	...	-1.1	24.3	3	...	...	...
J05102248-6941497	05 10 22.49	-69 41 49.7	83219	11.14	0.30	12.47	0.51	0.30	-2.2	76.7	3	...	...	...
J05102280-6846238	05 10 22.81	-68 46 23.9	...	10.09	0.16	10.49	0.00	...	231.6	64.8	1	B1.5eq	34	HD 269128
J05102367-7208450	05 10 23.68	-72 08 45.1	...	10.76	0.23	...	...	...	16.2	71.0	3	F5	5	HD 271077
J05102739-6909117	05 10 27.39	-69 09 11.7	...	10.67	0.16	11.42	0.22	...	237.8	69.5	1	B8Ia	30	HD 269139
J05103390-6900258	05 10 33.91	-69 00 25.9	83987	10.38	0.72	13.13	1.20	0.61	34.8	66.5	3	...	...	...
J05103493-6710167	05 10 34.94	-67 10 16.7	...	9.59	0.77	...	...	...	132.7	67.5	3	...	...	...
J05104453-6827487	05 10 44.54	-68 27 48.7	...	10.19	0.18	...	...	...	-4.8	55.0	3	G5	5	HD 269130
J05104762-7230268	05 10 47.62	-72 30 26.8	...	11.28	0.28	...	...	...	-3.2	52.3	3	...	...	...
J05105032-7214010	05 10 50.33	-72 14 01.0	...	7.87	0.67	...	...	...	73.7	73.7	3	K2	5	HD 271083
J05105397-6743370	05 10 53.98	-67 43 37.0	...	12.03	0.10	...	...	...	12.6	19.1	3	A	5	HD 269109
J05105590-6832525	05 10 55.91	-68 32 52.5	85530	10.06	0.61	12.45	0.90	0.50	90.8	132.2	3	...	...	...
J05105602-7034246	05 10 56.02	-70 34 24.7	85531	10.10	0.76	13.19	1.26	0.67	119.1	60.2	3	...	...	...
J05110212-6757239	05 11 02.13	-67 57 24.0	...	9.44	0.68	...	...	...	7.9	83.0	3	...	...	...
J05110303-6807493	05 11 03.03	-68 07 49.3	...	11.07	0.29	...	...	...	4.2	85.9	3	...	...	...
J05110476-7203463	05 11 04.77	-72 03 46.4	...	9.54	0.82	...	...	...	-23.8	72.1	3	...	...	...
J05110487-7014366	05 11 04.87	-70 14 36.6	86143	11.02	0.42	12.95	0.80	0.43	251.8	50.7	1	...	...	...
J05110628-7110006	05 11 06.29	-71 10 00.7	...	7.11	0.75	...	...	...	-20.8	78.1	3	K0	5	HD 269198
J05110695-6811161	05 11 06.96	-68 11 16.1	...	10.61	0.55	...	...	...	114.0	71.9	3	...	...	...
J05110702-7126138	05 11 07.02	-71 26 13.9	...	10.32	0.25	...	...	...	6.5	62.2	3	F8	5	HD 269207
J05111006-7132242	05 11 10.07	-71 32 24.3	...	11.07	0.33	...	...	...	49.9	102.3	3	...	...	...
J05111057-6903577	05 11 10.57	-69 03 57.8	86490	10.68	0.39	12.26	0.62	0.35	-11.7	135.4	3	K7	5	HD 269151
J05111398-7124072	05 11 13.98	-71 24 07.2	...	10.80	0.48	...	...	...	11.4	93.1	3	...	...	...
J05111817-6930090	05 11 18.18	-69 30 09.0	86970	8.99	0.81	12.08	1.27	0.67	70.9	73.0	3	...	...	...
J05112076-6942443	05 11 20.77	-69 42 44.3	...	9.41	0.25	...	...	...	15.4	61.8	3	F0	5	HD 269173
J05112511-6944006	05 11 25.11	-69 44 00.7	87357	11.03	0.25	12.28	0.49	0.29	15.8	81.7	3	...	...	...
J05113055-7229141	05 11 30.56	-72 29 14.2	...	9.39	0.67	...	...	...	-6.5	139.9	3	G5	5	HD 271091
J05113119-7126227	05 11 31.19	-71 26 22.8	...	10.66	0.59	...	...	...	13.4	94.9	3	...	...	...
J05113254-7107163	05 11 32.55	-71 07 16.4	87749	11.68	0.22	12.95	0.49	0.28	-10.9	91.8	3	...	...	...
J05113529-7018482	05 11 35.30	-70 18 48.3	...	9.54	0.46	...	...	...	-18.4	95.2	3	G0	5	HD 269185
J05114244-7201387	05 11 42.45	-72 01 38.8	...	12.41	0.06	12.97	0.26	...	129.2	20.1	3	A2	32	HD 271093
J05114760-7152422	05 11 47.60	-71 52 42.2	...	9.52	0.77	...	...	...	43.7	71.3	3	...	...	...
J05114771-6852535	05 11 47.71	-68 52 53.5	88615	8.46	0.78	11.40	1.20	0.62	74.5	79.6	3	...	...	...
J05114886-6719420	05 11 48.87	-67 19 42.0	...	8.01	0.60	...	...	...	-4.8	131.4	3	M0	5	HD 269168
J05115059-7041360	05 11 50.59	-70 41 36.0	88756	10.11	0.59	12.55	1.02	0.54	32.3	67.7	3	K2	5	HD 269135
J05115205-6709577	05 11 52.06	-67 09 57.8	...	10.06	0.69	12.29	0.34	...	315.5	50.8	1	B2III	20	Sk-67 57
J05115511-6627244	05 11 55.12	-66 27 24.4	...	9.37	0.62	...	...	...	-14.0	107.2	3	K2	5	HD 269108
J05115943-6701541	05 11 59.44	-67 01 54.1	...	10.44	0.55	...	...	...	109.2	83.7	3	...	...	...
J05120155-7235128	05 12 01.56	-72 35 12.9	...	10.64	0.61	...	...	...	67.5	70.7	3	...	...	...
J05120388-6803432	05 12 03.88	-68 03 43.3	...	9.72	0.23	...	...	...	2.6	81.6	3	G0	5	HD 269153
J05120405-6620391	05 12 04.06	-66 20 39.2	...	8.61	0.86	...	...	...	49.0	74.9	3	...	...	...
J05120849-6712187	05 12 08.49	-67 12 18.8	...	11.64	0.19	...	...	...	22.5	62.8	3	B9Ib	37	SOI 166

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05121113-7152184	05 12 11.13	-71 52 18.5	...	10.01	0.57	...	...	...	-14.9	84.9	3	...	...	...
J05121356-6709092	05 12 13.57	-67 09 09.2	...	9.22	0.60	...	...	...	-6.5	165.2	3	...	...	...
J05121611-6720533	05 12 16.12	-67 20 53.3	...	8.82	0.72	...	...	...	23.2	73.6	3	...	...	...
J05121668-6723575	05 12 16.69	-67 23 57.6	...	10.04	0.57	...	...	...	7.2	79.4	3	...	...	...
J05121707-6719262	05 12 17.08	-67 19 26.3	...	11.13	0.01	11.34	0.00	...	311.7	59.9	1	B5Ia	13	HD 269145
J05121735-6717544	05 12 17.36	-67 17 54.5	...	9.08	0.78	12.34 ^b	1.66 ^b	...	305.0	46.6	1	...	...	SP77 37-19
J05121801-6705415	05 12 18.02	-67 05 41.6	...	6.93	0.62	...	...	...	20.3	111.5	3	K0III	17	HD 34461
J05122144-6636540	05 12 21.45	-66 36 54.1	...	10.59	0.24	...	...	...	3.5	73.0	3	F8	5	HD 269134
J05122388-6756520	05 12 23.89	-67 56 52.1	...	6.17	0.81	...	...	...	50.4	68.8	3	K2/3III	17	HD 34489
J05123428-7206016	05 12 34.28	-72 06 01.7	...	10.64	0.37	...	...	...	47.3	101.8	3	F5	5	HD 271107
J05123463-6800212	05 12 34.63	-68 00 21.2	...	7.39	0.74	...	...	...	56.5	78.5	3	K2	5	HD 269169
J05123641-6612083	05 12 36.42	-66 12 08.4	...	8.22	0.76	...	...	...	-6.4	132.1	3	K7	5	HD 269132
J05124266-6917491	05 12 42.66	-69 17 49.2	91316	10.58	0.34	12.12	0.59	0.36	1.0	80.8	3	...	...	...
J05125331-6744362	05 12 53.31	-67 44 36.3	...	9.29	0.16	...	...	...	19.6	19.3	3	A3IV	17	HD 34555
J05125346-6718332	05 12 53.46	-67 18 33.3	...	10.06	0.35	...	...	...	38.7	78.2	3	K0	5	HD 269164
J05125819-6730201	05 12 58.20	-67 30 20.2	...	10.20	0.87	...	...	...	6.4	61.4	3	...	...	...
J05125827-6740238	05 12 58.27	-67 40 23.9	...	10.42	0.33	...	...	...	9.7	87.1	3	...	...	...
J05130415-6801277	05 13 04.15	-68 01 27.8	...	10.95	0.33	...	...	...	26.2	129.8	3	...	...	...
J05130849-7008223	05 13 08.49	-70 08 22.4	92553	9.52	0.89	12.99	1.77	0.79	254.9	25.9	1	...	...	SP77 39-16
J05131152-7035506	05 13 11.53	-70 35 50.6	92708	11.10	0.30	12.42	0.53	0.32	25.9	35.6	3	G5	5	HD 269230
J05131599-6717472	05 13 16.00	-67 17 47.3	...	11.12	0.13	11.76	0.14	...	284.5	83.7	1	A2I	30	HD 269171
J05132457-6616429	05 13 24.58	-66 16 43.0	...	10.15	0.64	...	...	...	11.6	57.3	3	...	...	...
J05132962-6815075	05 13 29.62	-68 15 07.5	...	10.69	0.33	12.15	0.45	...	40.4	32.5	3	F0	37	SOI 371
J05132975-7114032	05 13 29.76	-71 14 03.3	...	11.18	0.36	...	...	...	-13.8	113.8	3	...	...	...
J05133908-6612413	05 13 39.09	-66 12 41.4	...	8.23	0.69	...	...	...	57.8	130.0	3	K7	5	HD 269163
J05134017-7240013	05 13 40.17	-72 40 01.4	...	9.71	0.65	...	...	...	6.7	81.9	3	...	...	...
J05134162-6811381	05 13 41.62	-68 11 38.1	...	8.01	0.73	...	...	...	6.2	60.9	3	K7	5	HD 269201
J05134336-6900202	05 13 43.37	-69 00 20.3	...	6.79	0.78	...	...	...	-2.8	120.6	3	K7	5	HD 269213
J05134863-6727312	05 13 48.63	-67 27 31.2	...	10.28	0.63	...	...	...	11.5	84.5	3	...	...	...
J05135275-7240360	05 13 52.76	-72 40 36.0	...	11.11	0.40	...	...	...	24.9	121.3	3	...	...	...
J05135366-6703486	05 13 53.67	-67 03 48.6	...	10.26	0.53	12.21	0.67	...	325.2	48.4	1	F5?I?	10	RMC 83
J05135895-6642194	05 13 58.95	-66 42 19.5	...	9.66	0.24	...	...	...	19.0	78.5	3	F8	5	HD 269176
J05140037-6911372	05 14 00.37	-69 11 37.3	...	9.66	0.38	...	...	...	29.6	120.3	3	G0	5	HD 269224
J05140191-6727069	05 14 01.92	-67 27 07.0	...	10.92	0.08	11.34	0.10	...	298.9	100.4	1	B8Ia	37	HD 269195
J05140376-6859320	05 14 03.77	-68 59 32.1	95319	10.93	0.45	12.89	0.80	0.47	44.5	48.7	3	...	...	...
J05140442-6715506	05 14 04.42	-67 15 50.6	...	10.63	0.17	11.49	0.25	...	280.7	45.0	1	A9Ia	1	HD 269187
J05140543-6712347	05 14 05.43	-67 12 34.7	...	7.96	0.72	...	...	...	9.5	68.8	3	K	5	HD 269186
J05140600-6920334	05 14 06.00	-69 20 33.5	95436	12.41	0.02	12.61	0.02	0.09	246.7	78.4	1	...	...	...
J05140696-7133017	05 14 06.96	-71 33 01.8	...	10.29	0.67	...	...	...	42.7	81.7	3	...	...	...
J05141307-6731006	05 14 13.08	-67 31 00.7	...	11.61	0.27	...	...	...	2.9	66.5	3	...	...	...
J05141572-7223326	05 14 15.73	-72 23 32.7	...	10.10	0.66	...	...	...	34.5	88.2	3	...	...	...
J05141885-6715493	05 14 18.86	-67 15 49.3	...	8.93	0.81	12.21 ^b	1.61 ^b	...	296.2	46.1	1	...	...	SP77 37-33
J05142228-7031529	05 14 22.28	-70 31 53.0	96287	10.50	0.42	12.27	0.73	0.39	11.2	43.1	3	...	...	...
J05143281-7035058	05 14 32.82	-70 35 05.9	...	8.06	0.16	8.88	0.34	...	-3.1	45.5	3	F0IV	17	HD 34900
J05143646-6635270	05 14 36.46	-66 35 27.0	...	10.87	0.41	...	...	...	53.6	133.6	3	...	...	...
J05143684-6625495	05 14 36.85	-66 25 49.5	...	11.35	0.33	...	...	...	13.9	94.0	3	...	...	...
J05144430-7126087	05 14 44.30	-71 26 08.7	...	10.75	0.36	...	...	...	-15.0	90.5	3	G0	5	HD 269283
J05144450-6637023	05 14 44.50	-66 37 02.3	...	9.27	0.64	...	...	...	15.7	119.7	3	K7	5	HD 269197
J05144598-7240351	05 14 45.98	-72 40 35.1	...	8.85	0.65	...	...	...	82.5	106.5	3	K5	5	HD 271133
J05144707-6812435	05 14 47.08	-68 12 43.6	...	9.00	0.34	...	...	...	8.2	81.4	3	G0	5	HD 269226

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05144725-6715014	05 14 47.26	-67 15 01.4	...	11.03	0.33	...	...	...	12.6	76.5	3	...	...	...
J05145222-6702364	05 14 52.22	-67 02 36.4	...	10.51	0.42	...	...	...	11.8	48.2	3	...	...	...
J05145413-7017055	05 14 54.13	-70 17 05.5	...	6.78	0.73	...	...	...	16.7	74.8	3	K0/IIII	17	HD 34944
J05145855-6625182	05 14 58.56	-66 25 18.3	...	11.54	0.28	...	...	...	0.9	63.1	3	...	...	...
J05145960-7119558	05 14 59.60	-71 19 55.8	...	11.12	0.29	...	...	...	34.9	100.3	3	...	...	...
J05150227-7136020	05 15 02.27	-71 36 02.1	...	8.75	0.55	...	...	...	-13.4	112.4	3	G5	5	HD 269293
J05150326-7211454	05 15 03.27	-72 11 45.4	...	11.24	0.31	...	...	...	10.3	70.1	3	...	...	...
J05150627-6806331	05 15 06.28	-68 06 33.2	...	9.78	0.68	...	...	...	2.4	82.7	3	...	...	...
J05151061-6716332	05 15 10.62	-67 16 33.2	...	10.52	0.11	10.44	0.25	...	99.4	15.4	3	A3V	1	HD 269218
J05151669-6729266	05 15 16.69	-67 29 26.7	...	9.89	0.71	...	...	...	13.2	77.8	3	...	...	...
J05151793-7119545	05 15 17.93	-71 19 54.5	...	10.67	0.53	...	...	...	3.6	91.0	3	...	...	...
J05152026-7127000	05 15 20.26	-71 27 00.1	...	10.04	0.33	...	...	...	3.8	80.3	3	F8	5	HD 269296
J05152374-6706164	05 15 23.74	-67 06 16.4	...	9.30	0.66	...	...	...	6.4	66.1	3	...	...	...
J05152408-7117039	05 15 24.08	-71 17 04.0	...	11.25	0.36	...	...	...	23.9	110.9	3	...	...	...
J05152907-7223536	05 15 29.07	-72 23 53.6	...	6.03	0.65	...	...	...	-21.0	82.0	3	K0III	17	HD 35107
J05153087-6739249	05 15 30.88	-67 39 25.0	...	11.18	0.39	...	...	...	17.1	124.8	3	...	...	...
J05153794-7244061	05 15 37.95	-72 44 06.1	...	11.11	0.41	...	...	...	-41.4	111.0	3	...	...	...
J05153858-6722395	05 15 38.58	-67 22 39.5	...	8.95	0.70	...	...	...	34.9	83.7	3	...	...	...
J05154069-6745447	05 15 40.69	-67 45 44.8	...	9.24	0.68	...	...	...	16.6	68.0	3	K5	5	HD 269243
J05154271-6803105 ^a	05 15 42.71	-68 03 10.6	...	9.81	0.72	...	...	...	68.0	61.1	3	...	...	...
J05154743-7242321	05 15 47.44	-72 42 32.1	...	9.15	0.63	...	...	...	-10.6	115.7	3	K0	5	HD 271149
J05154964-7122505	05 15 49.64	-71 22 50.5	...	9.03	0.65	...	...	...	1.8	110.8	3	K7	5	HD 269307
J05155427-6817223	05 15 54.27	-68 17 22.4	...	10.72	0.33	...	...	...	38.9	76.5	3	K5	5	HD 269259
J05155800-6952403	05 15 58.01	-69 52 40.3	101751	9.17	0.77	12.01	1.15	0.60	121.3	17.2	3	...	...	...
J05160578-6745469	05 16 05.78	-67 45 46.9	...	11.11	0.34	...	...	...	1.3	102.2	3	...	...	...
J05160594-6633541	05 16 05.94	-66 33 54.2	...	7.49	0.66	...	...	...	21.2	131.5	3	G0	5	HD 269233
J05160610-6629537	05 16 06.10	-66 29 53.7	...	11.15	0.32	...	...	...	19.2	126.2	3	...	...	...
J05160743-7235588	05 16 07.44	-72 35 58.8	...	9.12	0.51	...	...	...	-24.8	96.2	3	K0	5	HD 271152
J05161495-6808002 ^a	05 16 14.95	-68 08 00.3	...	8.12	0.16	8.86	0.26	...	26.9	23.3	3	A7IV-V	16	HD 35026
J05161496-6627513	05 16 14.96	-66 27 51.3	...	11.17	0.26	12.45	0.47	...	28.4	84.7	3	F4	37	SOI 41
J05161688-7140402	05 16 16.88	-71 40 40.2	...	11.23	0.28	...	...	...	12.7	88.4	3	G	5	HD 269318
J05161932-6715161	05 16 19.33	-67 15 16.2	...	7.64	0.87	...	...	...	-1.7	66.0	3	K2	5	HD 269252
J05162185-6948298	05 16 21.85	-69 48 29.8	...	9.72	0.21	...	...	...	14.0	44.0	3	G0	5	HD 269294
J05162204-6608116	05 16 22.04	-66 08 11.6	...	10.20	0.63	...	...	...	35.4	79.8	3	...	...	...
J05162382-6831579	05 16 23.82	-68 31 58.0	...	9.05	0.70	...	...	...	50.6	88.3	3	...	...	...
J05162999-7135349	05 16 29.99	-71 35 34.9	...	9.94	0.66	...	...	...	-25.6	81.9	3	...	...	...
J05163116-6807229	05 16 31.16	-68 07 23.0	...	10.42	0.20	11.45	0.40	...	4.9	59.5	3	F0/5	33	HD 269271
J05163764-6632255	05 16 37.64	-66 32 25.6	...	10.42	0.75	...	...	...	99.4	78.4	3	...	...	...
J05164382-6811142	05 16 43.82	-68 11 14.3	...	8.55	0.13	9.08	0.20	...	19.5	20.3	3	A5III-IV	16	HD 35094
J05164489-6607270	05 16 44.89	-66 07 27.0	...	...	0.70	...	...	...	120.0	127.1	3	...	...	...
J05164557-6852598	05 16 45.58	-68 52 59.8	104739	10.54	0.27	11.82	0.52	0.29	3.0	76.4	3	...	...	...
J05165673-6940267	05 16 56.73	-69 40 26.7	105426	8.59	0.86	11.61	1.35	0.64	54.3	27.8	3	K7	5	HD 269305
J05165830-6819018	05 16 58.30	-68 19 01.8	...	11.33	0.30	...	...	...	-2.0	95.4	3	...	...	...
J05165896-6809512	05 16 58.97	-68 09 51.3	...	9.58	0.21	10.56	0.37	...	5.4	52.8	3	F2	33	HD 269280
J05165901-6806548	05 16 59.01	-68 06 54.8	...	11.13	0.37	...	...	...	24.9	115.2	3	...	...	...
J05170018-7213009	05 17 00.19	-72 13 00.9	...	...	0.51	...	...	...	-5.9	143.0	3	...	...	...
J05171022-6808046	05 17 10.23	-68 08 04.7	...	9.24	0.13	9.73	0.19	...	21.2	17.8	3	A2III	17	HD 35140
J05171113-6750144	05 17 11.13	-67 50 14.4	...	10.77	0.47	...	...	...	-9.9	140.6	3	...	...	...
J05171118-6746240	05 17 11.19	-67 46 24.1	...	10.02	0.34	...	...	...	20.8	112.5	3	F5	5	HD 269277
J05172303-6828190	05 17 23.04	-68 28 19.1	...	8.75	0.08	9.16	0.14	...	22.4	18.1	3	A5IV	16	HD 35183

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05172733-6902538	05 17 27.34	-69 02 53.9	107304	9.88	0.92	13.23	1.38	0.76	162.7	67.3	2	...	...	...
J05172791-6849214	05 17 27.92	-68 49 21.5	107323	10.38	0.58	12.75	1.01	0.50	35.6	77.9	3	...	...	...
J05173186-6625175	05 17 31.87	-66 25 17.6	...	10.22	0.57	...	...	...	22.8	135.7	3	...	...	...
J05173217-7141412	05 17 32.18	-71 41 41.3	...	9.41	0.86	...	...	...	132.9	80.8	3	...	...	...
J05173283-6945074	05 17 32.83	-69 45 07.5	107631	11.29	0.09	11.84	0.14	0.11	261.0	19.8	1	A1Ia	1	HD 269316
J05173580-6821472	05 17 35.80	-68 21 47.2	...	10.06	0.16	10.89	0.32	...	16.5	33.1	3	F0	33	HD 269301
J05173852-6747360	05 17 38.53	-67 47 36.0	...	10.89	0.39	...	...	...	-12.2	121.7	3	...	...	...
J05174636-6950571	05 17 46.37	-69 50 57.2	...	10.59	0.13	10.74	-0.03	...	230.7	47.2	1	B0:	30	HD 269327
J05174805-7144027	05 17 48.05	-71 44 02.8	...	10.26	0.34	...	...	...	38.2	74.5	3	...	...	...
J05174845-6845594	05 17 48.45	-68 45 59.5	108605	9.65	0.68	12.24	1.09	0.58	49.0	104.8	3	F8	5	HD 271167
J05175264-6813241	05 17 52.65	-68 13 24.1	...	10.17	0.61	...	...	...	-1.7	137.2	3	...	...	...
J05175495-6630015	05 17 54.96	-66 30 01.6	...	9.89	0.60	...	...	...	37.4	72.8	3	...	...	...
J05175916-6831277	05 17 59.16	-68 31 27.7	...	9.79	0.11	10.46	0.26	...	13.8	25.1	3	A7V	1	HD 269310
J05175981-6916146	05 17 59.81	-69 16 14.6	...	11.91	0.05	...	...	...	274.9	67.3	1	A2I	26	...
J05180182-6933377	05 18 01.83	-69 33 37.8	...	9.20	0.27	10.31	0.25	...	196.9	31.0	2	A5Ia0	1	HD 269331
J05180208-6821195	05 18 02.08	-68 21 19.6	...	8.79	0.10	9.25	0.20	...	27.8	14.3	3	kA1mA8	17	HD 35293
J05180327-6827567	05 18 03.27	-68 27 56.7	...	6.45	0.53	...	...	...	1.8	102.0	3	G1/3IV:	17	HD 35294
J05180355-6951272	05 18 03.55	-69 51 27.2	109566	10.86	0.37	12.44	0.67	0.39	-1.7	42.8	3	G0	32	...
J05180393-6737520	05 18 03.94	-67 37 52.1	...	10.52	0.33	...	...	...	33.1	92.9	3	F	5	HD 269304
J05180403-7220378	05 18 04.04	-72 20 37.9	...	10.10	0.74	...	...	...	22.2	113.5	3	...	...	...
J05180585-6629000	05 18 05.86	-66 29 00.1	...	10.44	0.35	...	...	...	-2.7	151.0	3	...	...	...
J05181198-6825363	05 18 11.98	-68 25 36.4	...	9.74	0.13	...	...	...	15.6	25.7	3	A5	33	HD 269312
J05181496-7121151	05 18 14.96	-71 21 15.1	...	11.06	0.29	...	...	...	30.0	102.4	3	...	...	...
J05181917-6826251	05 18 19.17	-68 26 25.2	...	11.20	0.33	...	...	...	1.3	79.0	3	...	...	...
J05181920-6911406	05 18 19.21	-69 11 40.6	...	11.30	0.04	11.24	-0.09	...	276.2	37.5	1	WN+BI	14	HD 269333
J05182248-6828015	05 18 22.49	-68 28 01.6	...	9.66	0.11	10.23	0.23	...	14.6	20.0	3	A3	33	HD 269319
J05182449-6945465	05 18 24.49	-69 45 46.5	110907	10.46	0.35	12.02	0.61	0.37	-1.7	84.9	3	...	...	...
J05183017-6913140	05 18 30.17	-69 13 14.0	...	11.57	0.02	11.83	0.04	...	264.2	73.2	1	A0I	26	Sk-69 99
J05183052-6752351	05 18 30.52	-67 52 35.1	...	10.22	0.30	...	...	...	-5.9	98.9	3	G0	5	HD 269313
J05183863-6945467	05 18 38.64	-69 45 46.8	...	9.96	0.32	11.23	0.45	...	276.9	27.8	1	F6Ia	30	HD 269355
J05183869-7229529	05 18 38.70	-72 29 53.0	...	10.36	0.76	...	...	...	57.6	131.8	3	...	...	...
J05184031-7241397	05 18 40.32	-72 41 39.8	...	6.28	0.90	...	...	...	-24.8	81.1	3	K2III:	17	HD 35581
J05184075-6802308	05 18 40.76	-68 02 30.8	...	11.11	0.41	...	...	...	62.2	111.6	3	...	...	...
J05184169-6822292	05 18 41.69	-68 22 29.2	...	9.95	0.59	...	...	...	8.7	79.8	3	...	...	...
J05184237-6802071	05 18 42.38	-68 02 07.2	...	9.83	0.11	...	...	...	19.3	23.1	3	A9V	17	HD 35360
J05184360-6807336 ^a	05 18 43.61	-68 07 33.7	...	11.86	0.05	12.25	0.08	...	295.1	62.3	1	B8I	30	Sk-68 68
J05184461-6739341	05 18 44.61	-67 39 34.1	...	9.81	0.18	...	...	...	15.2	19.0	3	kA1mF0	17	HD 35359
J05184872-6926379	05 18 48.72	-69 26 38.0	112387	9.20	0.84	12.33	1.30	0.66	22.5	56.2	3	...	...	...
J05185270-6832354	05 18 52.70	-68 32 35.5	...	11.02	0.36	...	...	...	17.8	81.9	3	...	...	...
J05185291-6834133	05 18 52.91	-68 34 13.3	...	9.84	0.08	10.24	0.23	...	10.2	26.0	3	A3/5	33	HD 269338
J05185943-6844179	05 18 59.44	-68 44 18.0	...	7.22	0.63	...	...	...	7.6	88.0	3	G8III	17	HD 35447
J05190060-6736403	05 19 00.60	-67 36 40.4	...	10.23	0.82	...	...	...	30.1	97.7	3	...	...	...
J05190484-6941055	05 19 04.85	-69 41 05.5	113490	12.26	0.01	12.46	0.01	0.06	248.1	30.1	1	B7I	30	GV 261
J05190521-6830457	05 19 05.22	-68 30 45.7	...	10.98	0.29	12.30	0.50	...	-0.8	97.7	3	F8:	33	NGC 1901 19
J05190742-7122159	05 19 07.42	-71 22 15.9	...	10.16	0.73	...	...	...	-0.6	93.6	3	...	...	...
J05191075-6834516	05 19 10.76	-68 34 51.7	...	9.25	0.15	9.88	0.26	...	13.0	20.4	3	A2III	17	HD 35462
J05191172-7236412	05 19 11.72	-72 36 41.3	...	11.02	0.39	...	...	...	35.4	94.3	3	...	...	...
J05191579-6856039	05 19 15.79	-68 56 03.9	114232	9.89	0.90	13.32	1.34	0.77	271.2	50.3	1	...	...	...
J05191778-6855160	05 19 17.78	-68 55 16.0	114357	11.68	0.26	13.02	0.48	0.30	31.3	79.1	3	...	...	...
J05191895-6918395	05 19 18.96	-69 18 39.5	114445	10.29	0.33	11.73	0.57	0.34	11.2	79.8	3	G0	32	HD 269369

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05191943-7237392	05 19 19.44	-72 37 39.2	...	10.55	0.59	...	...	...	4.2	72.0	3	...	...	...
J05192117-7231414	05 19 21.17	-72 31 41.4	...	9.08	0.67	...	...	...	9.1	81.4	3	K0	5	HD 271188
J05193050-6841096	05 19 30.51	-68 41 09.7	115273	9.76	0.61	12.13	1.24	0.59	295.5	42.6	1	G1Ia?	10	HD 269362
J05193188-6759454	05 19 31.89	-67 59 45.4	...	10.77	0.32	...	...	...	39.3	76.8	3	...	...	...
J05193250-6745285	05 19 32.50	-67 45 28.5	...	10.87	0.39	...	...	...	-2.5	107.1	3	...	...	...
J05193513-6741251	05 19 35.13	-67 41 25.2	...	10.41	0.39	...	...	...	17.0	131.9	3	K5	5	HD 269350
J05194249-7124434	05 19 42.49	-71 24 43.4	...	10.02	0.62	...	...	...	-6.4	97.0	3	...	...	...
J05194974-6807215	05 19 49.74	-68 07 21.6	...	9.49	0.39	...	...	...	7.4	84.1	3	G5	5	HD 269365
J05195179-6953084	05 19 51.80	-69 53 08.4	116798	11.36	0.17	12.12	0.24	0.18	256.2	44.5	1	B3I	30	HD 269392
J05195270-6944557	05 19 52.70	-69 44 55.7	116862	10.23	0.41	11.94	0.73	0.40	18.8	105.4	3	...	...	...
J05195673-6745528	05 19 56.73	-67 45 52.9	...	10.43	0.35	...	...	...	28.2	138.3	3	F8	5	HD 269359
J05195956-6739069	05 19 59.57	-67 39 07.0	...	8.72	0.58	...	...	...	-8.2	159.3	3	K0	5	HD 269360
J05200217-6803482	05 20 02.18	-68 03 48.2	...	9.85	0.51	...	...	...	294.2	45.3	1	M0	5	HD 269374
J05200240-6733308	05 20 02.40	-67 33 30.8	...	9.61	0.66	...	...	...	71.8	76.4	3	...	...	...
J05200423-6758306 ^a	05 20 04.23	-67 58 30.6	...	9.25	0.31	...	...	...	23.6	77.1	3	F8	5	HD 269375
J05200621-6930019	05 20 06.21	-69 30 02.0	117855	10.26	0.83	13.29	1.21	0.64	109.5	35.9	3	...	...	...
J05201136-6802262 ^a	05 20 11.36	-68 02 26.2	...	9.98	0.25	...	...	...	11.5	52.0	3	G0	5	HD 269381
J05201331-6850093	05 20 13.31	-68 50 09.3	118396	10.59	0.63	13.02	1.08	0.55	32.6	63.1	3	...	...	...
J05201613-6930040	05 20 16.14	-69 30 04.0	118613	9.32	0.56	11.48	0.88	0.48	-3.4	69.8	3	F5	5	HD 269395
J05202372-6802182	05 20 23.73	-68 02 18.2	...	9.31	0.68	...	...	...	93.2	120.0	3	...	...	...
J05202897-7111549	05 20 28.97	-71 11 54.9	...	7.82	0.68	...	...	...	-13.0	105.3	3	K2	5	HD 269413
J05203078-7219385	05 20 30.78	-72 19 38.6	...	11.29	0.35	...	...	...	67.7	83.2	3	...	...	...
J05203433-6859414	05 20 34.34	-68 59 41.5	120001	11.25	0.35	12.68	0.57	0.35	-1.2	101.9	3	...	...	...
J05204690-7147368	05 20 46.91	-71 47 36.8	...	11.34	0.33	...	...	...	8.1	79.5	3	...	...	...
J05204690-7247521	05 20 46.90	-72 47 52.1	...	11.23	0.34	...	...	...	7.5	83.9	3	...	...	...
J05205365-7241451	05 20 53.66	-72 41 45.2	...	11.11	0.29	...	...	...	2.9	92.6	3	...	...	...
J05205366-6915339	05 20 53.67	-69 15 34.0	...	7.45	0.59	...	...	...	13.1	96.5	3	K0	5	HD 269403
J05205830-7212135	05 20 58.30	-72 12 13.6	...	10.70	0.56	...	...	...	4.6	70.4	3	...	...	...
J05210110-7114545	05 21 01.11	-71 14 54.6	...	8.88	0.74	...	...	...	-15.4	104.8	3	K5	5	HD 269425
J05210161-7213410	05 21 01.62	-72 13 41.0	...	10.16	0.76	...	...	...	41.0	67.1	3	...	...	...
J05210196-6821151	05 21 01.97	-68 21 15.2	...	6.36	0.79	9.34	1.28	...	-2.4	86.2	3	K2III	17	HD 35704
J05210363-6802539 ^a	05 21 03.64	-68 02 54.0	...	11.79	0.19	12.50	0.15	...	298.9	74.7	1	B6I	30	Sk-68 71
J05210432-7114025	05 21 04.33	-71 14 02.5	...	10.84	0.23	...	...	...	46.2	59.9	3	G0	5	HD 269428
J05210664-7150169	05 21 06.64	-71 50 16.9	...	10.42	0.41	...	...	...	16.5	105.9	3	K0	5	HD 271209
J05210783-6757361	05 21 07.84	-67 57 36.2	...	10.19	0.69	...	...	...	126.3	103.4	3	...	...	...
J05211290-7243467	05 21 12.91	-72 43 46.7	...	10.91	0.28	...	...	...	13.7	70.0	3	...	...	...
J05211724-6733159	05 21 17.25	-67 33 15.9	...	10.96	0.31	...	...	...	-2.3	68.3	3	K	5	HD 269396
J05212298-6719509	05 21 22.98	-67 19 51.0	...	10.29	0.31	...	...	...	-3.9	82.3	3	F5	5	HD 269397
J05212400-7136241	05 21 24.00	-71 36 24.1	...	10.94	0.37	...	...	...	-3.0	130.9	3	...	...	...
J05212537-6717051	05 21 25.37	-67 17 05.2	...	10.18	0.50	...	...	...	1.6	93.7	3	...	...	...
J05212795-6810071 ^a	05 21 27.96	-68 10 07.2	123781	11.14	0.33	12.53	0.53	0.33	-1.0	90.6	3	...	...	...
J05213157-6827241	05 21 31.58	-68 27 24.2	124041	10.95	0.43	12.63	0.73	0.39	36.5	66.5	3	...	...	...
J05213756-6706141	05 21 37.56	-67 06 14.1	...	11.53	0.00	11.58	-0.01	...	324.9	72.4	1	B5Ia	12	HD 269400
J05213757-6926031	05 21 37.57	-69 26 03.2	124441	9.52	0.65	12.06	1.02	0.55	-9.4	24.3	3	...	...	...
J05213781-7134226	05 21 37.81	-71 34 22.7	...	10.31	0.81	...	...	...	86.5	62.8	3	...	...	...
J05214676-6756422	05 21 46.76	-67 56 42.2	...	9.79	0.57	...	...	...	10.7	86.8	3	...	...	...
J05214694-7119437	05 21 46.95	-71 19 43.8	...	8.05	0.82	...	...	...	243.4	40.9	1	...	...	...
J05215221-6910343	05 21 52.22	-69 10 34.4	125467	11.32	0.33	12.65	0.59	0.35	34.6	80.7	3	...	...	...
J05215346-7246458	05 21 53.47	-72 46 45.8	...	10.09	0.31	...	...	...	8.3	73.1	3	G0	5	HD 271228
J05215404-6754528	05 21 54.05	-67 54 52.9	...	11.83	0.06	11.95	0.00	...	307.6	34.3	1	B2.5	30	HD 269412

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05215672-6926543	05 21 56.72	-69 26 54.3	...	11.45	0.04	11.58	0.01	...	305.9	14.0	1	B8I	30	HD 269433
J05220160-6658533	05 22 01.60	-66 58 53.3	...	10.71	0.31	...	...	...	2.6	76.1	3	...	...	...
J05220168-6821349	05 22 01.69	-68 21 35.0	...	...	0.65	...	...	...	38.4	88.0	3	K2	5	HD 269416
J05220207-6930388	05 22 02.07	-69 30 38.8	126085	10.08	0.60	12.35	0.96	0.51	20.9	55.2	3	...	...	...
J05220428-6848504	05 22 04.28	-68 48 50.4	126251	10.77	0.59	13.15	0.89	0.53	45.5	82.0	3	...	...	...
J05220648-6851301	05 22 06.49	-68 51 30.2	126406	10.93	0.26	12.12	0.46	0.28	19.9	70.7	3	G5	5	HD 269427
J05220770-7147065	05 22 07.70	-71 47 06.5	...	11.09	0.37	...	...	...	39.0	66.1	3	...	...	...
J05220861-7231256	05 22 08.62	-72 31 25.6	...	...	0.59	...	...	...	11.2	86.1	3	...	...	...
J05221089-6917242	05 22 10.89	-69 17 24.3	126683	8.45	0.91	11.60	1.24	0.67	91.3	101.9	3	K2V	25	...
J05221259-7230290	05 22 12.59	-72 30 29.1	...	9.92	0.69	...	...	...	28.1	105.8	3	...	...	...
J05221281-7043393	05 22 12.82	-70 43 39.4	126817	10.13	0.68	12.73	1.07	0.54	18.6	115.4	3	...	...	...
J05221347-7156183	05 22 13.47	-71 56 18.4	...	10.10	0.15	...	...	...	-16.3	14.4	3	A3	5	HD 271227
J05221585-6951201	05 22 15.86	-69 51 20.1	127048	10.12	0.62	12.57	1.00	0.55	-8.9	108.8	3	...	...	...
J05221844-6654590	05 22 18.45	-66 54 59.0	...	10.50	0.33	12.26	0.49	...	301.3	33.0	1	F6:1a	1	GV 274
J05222284-6722092	05 22 22.84	-67 22 09.3	...	10.60	0.12	...	...	...	27.2	27.2	3	F0	5	HD 269417
J05222447-7044023	05 22 24.48	-70 44 02.3	127641	10.71	0.36	12.19	0.54	0.33	24.4	117.2	3	F8	5	HD 269456
J05222767-6808518	05 22 27.67	-68 08 51.8	...	9.27	0.91	...	...	...	198.8	61.0	2	...	...	...
J05223096-7107116	05 22 30.96	-71 07 11.6	...	10.10	0.72	...	...	...	60.2	136.4	3	...	...	...
J05223105-6750592	05 22 31.05	-67 50 59.2	...	10.99	0.31	...	...	...	1.6	76.4	3	...	...	...
J05223197-6717241	05 22 31.98	-67 17 24.1	...	12.22	0.05	12.44	0.02	...	291.8	80.6	1	B6I	30	Sk-67 88
J05223630-6859524	05 22 36.30	-68 59 52.5	128500	9.53	0.74	12.38	1.16	0.62	25.1	122.3	3	...	...	...
J05223754-7052256	05 22 37.55	-70 52 25.7	128586	10.28	0.74	13.06	1.12	0.62	61.4	112.7	3	...	...	...
J05223813-6747431	05 22 38.13	-67 47 43.2	...	9.98	0.85	...	...	...	35.9	51.7	3	...	...	...
J05224569-6950516 ^a	05 22 45.69	-69 50 51.6	129186	9.77	0.49	11.82	0.95	0.48	254.4	51.6	1	...	...	...
J05224637-7245400	05 22 46.37	-72 45 40.0	...	11.39	0.32	...	...	...	-13.8	89.6	3	...	...	...
J05224709-6712227	05 22 47.10	-67 12 22.7	...	11.40	0.12	11.89	0.10	...	278.7	106.1	1	A11a	1	Sk-67 89
J05224995-6948546 ^a	05 22 49.96	-69 48 54.6	129519	9.20	0.83	12.27	1.24	0.63	26.1	100.0	3	...	...	...
J05225622-6711258	05 22 56.23	-67 11 25.9	...	9.20	0.28	...	...	...	-4.6	83.0	3	F5	5	HD 269438
J05225670-7147472	05 22 56.71	-71 47 47.3	...	10.48	0.43	...	...	...	35.9	101.9	3	G5	5	HD 271231
J05225858-7041014	05 22 58.59	-70 41 01.4	...	8.47	0.66	...	...	...	-1.3	155.1	3	K0	5	HD 269472
J05225979-6803512	05 22 59.80	-68 03 51.2	...	9.19	0.12	...	...	...	24.9	19.0	3	A2IV/V	17	HD 35978
J05230467-6807051 ^a	05 23 04.67	-68 07 05.2	...	10.61	0.18	...	...	...	-9.2	67.5	3	K5	5	HD 269447
J05230630-7125233	05 23 06.30	-71 25 23.4	...	11.02	0.37	...	...	...	43.5	88.9	3	...	...	...
J05231281-6722498	05 23 12.82	-67 22 49.8	...	10.01	0.71	...	...	...	19.3	112.8	3	...	...	...
J05231505-6754103	05 23 15.06	-67 54 10.3	...	7.61	0.72	...	...	...	19.4	77.3	3	K0	5	HD 269448
J05231641-6725147	05 23 16.42	-67 25 14.8	...	9.18	0.54	...	...	...	30.1	89.8	3	...	...	...
J05231686-7058264	05 23 16.87	-70 58 26.5	131299	11.09	0.32	12.56	0.57	0.33	6.6	81.4	3	...	...	...
J05232000-6817377	05 23 20.00	-68 17 37.8	...	10.32	0.18	...	...	...	4.8	55.0	3	F2	5	HD 269457
J05232178-6849151	05 23 21.78	-68 49 15.1	131489	10.58	0.25	11.89	0.48	0.30	28.1	36.2	3	K0	5	HD 269465
J05232209-6907001	05 23 22.10	-69 07 00.1	131499	11.48	0.28	12.90	0.55	0.34	64.5	70.6	3	...	...	...
J05232350-6939238	05 23 23.51	-69 39 23.8	...	11.91	0.16	...	...	...	277.1	13.7	1	A3Ib	37	SOI 605
J05232356-6831461	05 23 23.56	-68 31 46.2	131535	9.26	0.61	11.62	1.02	0.54	-7.6	101.3	3	K2	5	HD 269464
J05232368-6823208	05 23 23.68	-68 23 20.8	131537	10.84	0.19	11.97	0.45	0.29	3.6	75.5	3	G5	5	HD 269461
J05233620-6909497	05 23 36.20	-69 09 49.7	131777	10.53	0.66	13.18	1.08	0.58	22.5	102.6	3	...	...	...
J05233985-7120414	05 23 39.85	-71 20 41.5	...	11.07	0.44	...	...	...	-13.2	80.3	3	...	...	...
J05234389-6742436	05 23 43.90	-67 42 43.6	...	9.87	0.70	...	...	...	30.3	81.5	3	...	...	...
J05234659-6901038	05 23 46.60	-69 01 03.8	131963	9.50	0.80	12.65	1.30	0.70	71.9	74.2	3	...	...	...
J05235100-6745538	05 23 51.01	-67 45 53.9	...	10.12	0.31	...	...	...	13.3	79.0	3	K2	5	HD 269471
J05235230-6941270	05 23 52.30	-69 41 27.0	...	12.37	0.02	...	...	...	314.0	27.0	1	B2	30	Sk-69 118
J05235453-6659294	05 23 54.54	-66 59 29.5	...	10.65	0.46	...	...	...	-4.8	89.0	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s ⁻¹)	Category ^d	Class	Ref. ^e	Comments
J05235715-7149267	05 23 57.15	-71 49 26.8	...	10.08	0.92	...	...	...	234.0	50.4	1	...	...	...
J05240060-7143547	05 24 00.61	-71 43 54.7	...	10.90	0.31	...	...	...	21.4	105.1	3	F5	5	HD 269494
J05240358-7238499	05 24 03.58	-72 38 49.9	...	10.05	0.31	...	...	...	-1.0	120.1	3	G0	5	HD 271258
J05241367-6623441	05 24 13.67	-66 23 44.1	...	10.73	0.26	...	...	...	41.4	80.3	3	A5	5	HD 269467
J05241374-6625290	05 24 13.74	-66 25 29.1	...	11.74	0.18	...	...	...	306.6	100.0	1	B8I	30	Sk-66 81
J05241617-6939310	05 24 16.18	-69 39 31.1	...	10.34	0.82	...	...	...	268.1	50.1	1	...	...	...
J05241889-6811305	05 24 18.90	-68 11 30.5	...	8.88	0.61	...	...	...	29.9	158.1	3	K7	5	HD 269480
J05241932-6716581	05 24 19.32	-67 16 58.2	...	11.56	0.25	...	...	...	34.7	67.3	3	...	...	...
J05242164-6808278	05 24 21.64	-68 08 27.8	...	10.85	0.30	...	...	...	2.6	72.6	3	F8	5	HD 269482
J05242316-6710137	05 24 23.17	-67 10 13.7	...	10.35	0.81	...	...	...	6.9	69.4	3	...	...	...
J05242366-6958353	05 24 23.67	-69 58 35.4	...	10.54	0.55	...	...	...	2.3	92.2	3	...	...	...
J05243241-6829546	05 24 32.41	-68 29 54.6	132820	9.82	0.82	13.00	1.58	0.72	271.4	50.3	1	...	...	...
J05243336-6730076	05 24 33.36	-67 30 07.7	...	11.14	0.39	...	...	...	85.4	114.8	3	...	...	...
J05243358-7008319	05 24 33.58	-70 08 31.9	...	10.68	0.63	...	...	...	-38.1	137.8	3	...	...	...
J05243931-6945547	05 24 39.32	-69 45 54.8	...	10.66	0.37	...	...	...	11.1	81.4	3	...	...	...
J05244191-6834506	05 24 41.92	-68 34 50.6	...	9.96	0.16	...	...	...	-2.9	16.8	3	A5	5	HD 269489
J05244394-6655146	05 24 43.95	-66 55 14.6	...	10.33	0.32	...	...	...	62.2	61.1	3	...	...	...
J05244436-6937483	05 24 44.36	-69 37 48.4	...	11.36	0.17	12.22	0.24	...	238.4	43.3	1	F0I:	32	GV 288
J05244614-7226112	05 24 46.15	-72 26 11.3	...	8.05	0.69	...	...	...	-12.5	100.7	3	G5	5	HD 271266
J05244944-6622187	05 24 49.45	-66 22 18.8	...	10.45	0.50	...	...	...	14.5	99.3	3	...	...	...
J05245203-6618300	05 24 52.04	-66 18 30.1	...	11.05	0.30	...	...	...	19.5	128.5	3	...	...	...
J05245231-6805419	05 24 52.32	-68 05 42.0	...	10.38	0.79	...	...	...	26.9	58.2	3	...	...	...
J05250021-6948412	05 25 00.21	-69 48 41.3	...	9.85	0.79	...	...	...	64.3	98.9	3	...	...	...
J05250024-7144275	05 25 00.25	-71 44 27.5	...	10.31	0.62	...	...	...	-46.5	93.3	3	...	...	...
J05250444-6729232	05 25 04.45	-67 29 23.3	...	9.19	0.62	...	...	...	6.9	82.2	3	...	...	...
J05250639-6724089	05 25 06.40	-67 24 09.0	...	9.29	0.17	...	...	...	19.8	41.1	3	F5	5	HD 269492
J05250683-7138491	05 25 06.84	-71 38 49.2	...	10.12	0.68	...	...	...	71.6	68.1	3	...	...	...
J05251435-6632489	05 25 14.36	-66 32 48.9	...	11.05	0.32	...	...	...	-4.5	106.0	3	...	...	...
J05251675-6812450	05 25 16.75	-68 12 45.0	133736	11.00	0.39	12.59	0.67	0.38	16.4	78.3	3	K0	5	HD 269500
J05251845-6714305	05 25 18.45	-67 14 30.6	...	7.52	0.81	...	...	...	47.4	82.6	3	K7	5	HD 269497
J05252587-7011351	05 25 25.88	-70 11 35.1	...	8.01	0.55	...	...	...	16.4	114.7	3	K0	5	HD 269520
J05252790-7057341	05 25 27.90	-70 57 34.1	...	8.64	0.79	...	...	...	-9.9	106.1	3	K5	5	HD 269524
J05252959-6702543	05 25 29.60	-67 02 54.4	...	11.05	0.41	...	...	...	4.4	57.6	3	...	...	...
J05253046-7117462	05 25 30.46	-71 17 46.2	...	8.01	0.66	...	...	...	-11.3	131.8	3	K0	5	HD 269530
J05253072-7130494	05 25 30.73	-71 30 49.4	...	11.08	0.28	...	...	...	35.5	56.8	3	F8	5	HD 269531
J05253462-7104336	05 25 34.62	-71 04 33.6	...	10.69	0.57	...	...	...	2.3	58.7	3	...	...	...
J05253505-6720596	05 25 35.05	-67 20 59.7	...	11.18	0.36	...	...	...	19.9	97.6	3	...	...	...
J05253819-7229361	05 25 38.20	-72 29 36.1	...	9.72	0.48	...	...	...	17.0	111.7	3	G0	5	HD 271280
J05254109-6830238	05 25 41.10	-68 30 23.8	134298	11.43	0.25	12.68	0.46	0.32	49.0	72.2	3	K5	5	HD 269514
J05254511-7005440	05 25 45.12	-70 05 44.0	...	10.36	0.29	...	...	...	24.4	114.9	3	F8	5	HD 269528
J05254633-7009547	05 25 46.33	-70 09 54.8	...	9.96	0.68	...	...	...	5.1	76.8	3	...	...	...
J05254785-6759164	05 25 47.86	-67 59 16.4	134447	10.47	0.56	12.83	0.95	0.00	4.8	36.8	3	...	...	...
J05254992-6640567	05 25 49.93	-66 40 56.8	...	9.26	0.79	...	...	...	-15.8	101.2	3	...	...	...
J05255260-6946080	05 25 52.60	-69 46 08.1	...	11.23	0.22	...	...	...	18.5	87.0	3	...	...	...
J05255400-7048421	05 25 54.00	-70 48 42.1	...	11.33	0.30	...	...	...	-27.5	62.6	3	...	...	...
J05255810-7011078	05 25 58.11	-70 11 07.8	...	9.03	0.68	...	...	...	41.1	38.6	3	...	...	...
J05260387-6707112	05 26 03.87	-67 07 11.3	134903	10.84	0.37	12.32	0.55	0.00	12.8	25.6	3	...	...	...
J05260430-6626496	05 26 04.30	-66 26 49.6	...	7.91	0.23	...	...	...	1.7	80.0	3	F5V	17	HD 36356
J05260936-7228371	05 26 09.36	-72 28 37.1	...	7.20	0.64	...	...	...	38.1	93.3	3	G8III	17	HD 36637
J05261181-7133407	05 26 11.82	-71 33 40.7	...	11.38	0.02	11.61	0.05	...	246.9	73.4	1	B5Ia	13	HD 269547

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05261447-6956166	05 26 14.48	-69 56 16.6	...	11.32	0.25	...	...	...	26.8	129.3	3	...	...	...
J05261498-6640023	05 26 14.98	-66 40 02.4	...	12.31	0.01	12.40	0.02	...	307.7	82.0	1	B8I	30	Sk-66 92
J05261601-7043248	05 26 16.02	-70 43 24.8	...	9.08	0.36	...	...	...	-19.3	89.0	3	G0	5	HD 269543
J05262376-7116494	05 26 23.77	-71 16 49.5	...	9.16	0.64	...	...	...	-5.2	123.2	3	K2	5	HD 269550
J05262598-6612114	05 26 25.98	-66 12 11.5	...	10.89	0.28	12.11	0.32	...	295.5	83.3	1	A2I	30	Sk-66 94
J05262674-7104474	05 26 26.74	-71 04 47.5	...	9.41	0.68	...	...	...	7.3	85.8	3	...	...	...
J05262864-6626438	05 26 28.64	-66 26 43.8	...	9.95	0.27	...	...	...	6.0	66.0	3	G0	5	HD 269527
J05263204-6956291	05 26 32.05	-69 56 29.2	...	11.30	0.34	...	...	...	10.7	75.7	3	...	...	...
J05263410-6806016	05 26 34.11	-68 06 01.7	...	9.42	0.21	...	...	...	8.3	66.5	3	F5	5	HD 269539
J05264079-7044186	05 26 40.79	-70 44 18.6	...	8.18	0.32	...	...	...	25.0	81.1	3	F6/7V	17	HD 36621
J05264660-6641588	05 26 46.60	-66 41 58.8	...	12.30	0.04	12.43	0.02	...	311.1	113.3	1	B8:I	30	Sk-66 95
J05264679-6640571	05 26 46.79	-66 40 57.1	...	7.77	0.78	...	...	...	29.4	66.7	3	K0	5	HD 269537
J05265200-7012553	05 26 52.01	-70 12 55.3	...	10.38	0.32	...	...	...	0.1	109.4	3	A5	5	HD 269558
J05265340-7135090	05 26 53.41	-71 35 09.1	...	9.86	0.27	...	...	...	-11.8	112.1	3	G0	5	HD 269565
J05265532-6853513	05 26 55.33	-68 53 51.3	136959	10.54	0.57	12.92	0.94	0.52	178.4	100.7	2	...	...	...
J05265737-6641020	05 26 57.37	-66 41 02.0	...	10.79	0.33	...	...	...	10.3	80.9	3	...	...	...
J05270061-6759398	05 27 00.62	-67 59 39.8	137194	10.44	0.38	12.02	0.54	0.37	60.3	34.8	3	K0	5	HD 269552
J05270354-7058131	05 27 03.55	-70 58 13.1	...	10.49	0.30	...	...	...	-8.4	99.9	3	F8	5	HD 269564
J05270561-6830090	05 27 05.62	-68 30 09.1	...	7.21	0.73	...	...	...	18.0	96.8	3	G5	5	HD 269556
J05271187-7123345	05 27 11.87	-71 23 34.5	...	10.84	0.32	...	...	...	-2.1	119.3	3	...	...	...
J05271653-7014006	05 27 16.54	-70 14 00.7	...	9.67	0.23	...	...	...	27.2	129.2	3	G0	5	HD 269574
J05272314-6849394	05 27 23.15	-68 49 39.4	138221	9.52	0.65	12.00	0.88	0.50	66.8	83.9	3	...	...	...
J05272461-6948041	05 27 24.61	-69 48 04.2	...	10.95	0.29	...	...	...	21.2	101.0	3	...	...	...
J05273468-7146311	05 27 34.68	-71 46 31.2	...	10.20	0.26	...	...	...	-11.7	93.2	3	G0	5	HD 271300
J05273699-6910370	05 27 36.99	-69 10 37.1	138903	12.37	0.03	12.67	0.04	0.08	270.3	98.2	1	...	...	...
J05273992-7031299	05 27 39.93	-70 31 29.9	...	9.73	0.09	10.12	0.14	...	63.2	12.5	3	A0III/IV	17	HD 36751
J05274215-6853394	05 27 42.15	-68 53 39.4	...	9.88	0.38	...	...	...	17.7	138.8	3	...	...	...
J05274291-6804271	05 27 42.91	-68 04 27.2	...	6.19	0.62	8.79	1.12	...	29.6	82.5	3	K0III	6	HD 36650
J05274440-6818074	05 27 44.40	-68 18 07.5	139279	8.80	0.71	11.54	1.16	0.61	39.5	64.0	3	K0	5	HD 269575
J05274627-6617346	05 27 46.28	-66 17 34.7	...	8.61	0.66	...	...	...	-13.3	116.7	3	...	...	...
J05274641-7057173	05 27 46.41	-70 57 17.3	...	11.35	0.20	...	...	...	2.7	50.4	3	F5	5	HD 269589
J05274856-7007266	05 27 48.56	-70 07 26.7	...	12.41	0.02	12.84	0.07	...	223.6	68.0	1	A2I	30	HD 269585
J05275120-6900553	05 27 51.20	-69 00 55.3	...	9.78	0.20	10.70	0.26	...	235.8	58.4	1	F2I	30	Sk-69 142
J05275361-6901584	05 27 53.62	-69 01 58.5	...	10.23	0.17	10.81	0.11	...	248.4	52.3	1	B5:I	30	Sk-69 143
J05275397-6632322	05 27 53.97	-66 32 32.3	...	11.02	0.45	...	...	...	-21.4	109.5	3	...	...	...
J05275455-6638278	05 27 54.55	-66 38 27.9	...	8.89	0.57	...	...	...	38.2	89.6	3	G0	5	HD 269573
J05275533-6906322	05 27 55.33	-69 06 32.3	139787	12.13	0.07	12.21	0.02	0.05	268.4	69.6	1	...	...	...
J05275906-6700485	05 27 59.06	-67 00 48.6	...	10.21	0.60	...	...	...	8.3	59.5	3	...	...	...
J05275939-6848400	05 27 59.40	-68 48 40.1	139973	11.25	0.30	12.51	0.41	0.29	295.4	29.0	1	...	...	...
J05280046-6818517	05 28 00.47	-68 18 51.8	140025	10.21	0.66	12.82	1.04	0.57	-35.5	119.5	3	...	...	...
J05280082-6946420	05 28 00.83	-69 46 42.1	...	11.15	0.15	...	...	...	24.6	56.4	3	F5	5	HD 269590
J05280399-6659471 ^a	05 28 04.00	-66 59 47.1	...	9.71	0.30	...	...	...	1.1	67.9	3	F2	5	HD 269580
J05280556-6934084	05 28 05.57	-69 34 08.4	...	10.93	0.35	...	...	...	-16.4	91.5	3	...	...	...
J05280658-7143408	05 28 06.58	-71 43 40.9	...	10.73	0.57	...	...	...	85.1	114.8	3	...	...	...
J05281364-7027516	05 28 13.64	-70 27 51.6	...	11.25	0.28	...	...	...	35.9	68.5	3	K0	5	HD 269600
J05281727-6845597	05 28 17.28	-68 45 59.7	140859	11.62	0.23	12.73	0.42	0.26	3.1	52.1	3	...	...	...
J05281778-6904185	05 28 17.79	-69 04 18.5	...	10.23	0.33	11.37	0.29	...	250.9	46.0	1	F0I	30	Sk-69 145
J05282004-6702194 ^b	05 28 20.04	-67 02 19.4	141010	11.59	0.12	12.22	0.07	0.12	288.4	81.0	1	A4I	30	HD 269591
J05282196-6859482	05 28 21.97	-68 59 48.2	...	10.24	0.27	11.45	0.39	...	229.3	40.4	1	F5Ia	30	Sk-69 147
J05282530-6957151	05 28 25.30	-69 57 15.2	...	10.82	0.54	...	...	...	17.3	83.7	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05282792-6912573	05 28 27.93	-69 12 57.3	141377	8.38	0.59	10.93	1.61	0.70	266.6	39.9	1	K0I	25	Sk-69 148
J05282884-7010569	05 28 28.85	-70 10 57.0	...	9.54	0.67	...	...	...	93.2	70.6	3	...	...	...
J05283065-6946185	05 28 30.66	-69 46 18.5	...	11.14	0.38	...	...	...	51.6	116.3	3	...	...	...
J05283132-7026346	05 28 31.33	-70 26 34.6	...	11.41	0.26	...	...	...	23.6	90.2	3	...	...	...
J05283137-6853557	05 28 31.38	-68 53 55.8	...	10.28	0.11	10.74	0.13	...	264.7	62.7	1	A1Ia0	1	HD 269604
J05283205-6912030	05 28 32.06	-69 12 03.1	141603	11.81	0.14	12.27	0.08	0.09	263.1	86.2	1	A0I	30	Sk-69 150
J05283412-6823365	05 28 34.12	-68 23 36.6	141685	10.96	0.43	12.80	0.80	0.44	27.1	89.3	3	...	...	...
J05283691-6636403	05 28 36.92	-66 36 40.3	...	10.42	0.62	...	...	...	27.8	72.1	3	...	...	...
J05283810-6647242	05 28 38.10	-66 47 24.2	...	11.06	0.26	...	...	...	2.1	76.4	3	...	...	...
J05284137-6849008	05 28 41.38	-68 49 00.9	...	9.45	0.29	10.67	0.60	...	36.5	81.4	3	G0	5	HD 269609
J05284273-6824022	05 28 42.73	-68 24 02.3	142083	10.34	0.61	12.78	1.05	0.57	24.8	90.1	3	...	...	...
J05284617-6956260	05 28 46.17	-69 56 26.0	...	10.86	0.38	...	...	...	22.5	148.6	3	...	...	...
J05284670-6925539	05 28 46.71	-69 25 54.0	142264	11.19	0.39	12.74	0.65	0.32	281.4	44.6	1	...	...	...
J05284917-6659362 ^a	05 28 49.17	-66 59 36.3	...	11.48	0.03	11.43	-0.02	...	300.4	69.0	1	B7Ia	13	HD 269606
J05285595-6859004	05 28 55.96	-68 59 00.5	...	11.46	0.14	12.17	0.17	...	260.6	81.1	1	A5:I	30	GV 323
J05290363-7034432	05 29 03.63	-70 34 43.2	...	10.04	0.84	...	...	...	-3.0	91.5	3	...	...	...
J05290418-6644424	05 29 04.18	-66 44 42.5	...	10.96	0.34	...	...	...	24.4	145.9	3	...	...	...
J05290867-6652463 ^a	05 29 08.68	-66 52 46.3	...	7.80	0.71	...	...	...	22.6	140.7	3	K0	5	HD 269614
J05290910-6901396	05 29 09.10	-69 01 39.6	143305	10.99	0.33	12.23	0.46	0.30	30.9	78.2	3	...	...	...
J05291227-6645574 ^a	05 29 12.28	-66 45 57.4	...	11.48	0.30	...	...	...	4.2	60.1	3	...	...	...
J05291357-7024147	05 29 13.58	-70 24 14.8	...	10.51	0.62	...	...	...	66.5	52.4	3	...	...	...
J05291676-6701141 ^a	05 29 16.77	-67 01 14.1	...	11.25	0.27	...	...	...	27.1	105.0	3	...	...	...
J05291791-7136404	05 29 17.91	-71 36 40.4	...	10.98	0.29	...	...	...	3.5	87.8	3	G	5	HD 269622
J05291884-6813369	05 29 18.85	-68 13 36.9	143773	11.33	0.25	12.52	0.42	0.28	35.0	53.1	3	...	...	...
J05292039-6653139 ^a	05 29 20.39	-66 53 13.9	...	11.14	0.21	...	...	...	47.6	35.7	3	A5	5	HD 269617
J05292502-6828010	05 29 25.02	-68 28 01.1	...	10.81	0.10	11.34	0.13	...	263.2	38.6	1	B9Ia	1	HD 269619
J05292797-7038470	05 29 27.98	-70 38 47.0	...	9.08	0.80	...	...	...	99.1	81.8	3	K7	5	HD 269625
J05293091-7015196	05 29 30.91	-70 15 19.7	...	9.99	0.26	...	...	...	23.7	141.2	3	G5	5	HD 269626
J05293134-6628104	05 29 31.34	-66 28 10.5	...	11.27	0.23	...	...	...	30.2	66.1	3	...	...	...
J05293339-6926423	05 29 33.39	-69 26 42.3	...	9.04	0.41	...	...	...	3.9	109.4	3	G5	5	HD 269627
J05293400-6712259 ^a	05 29 34.01	-67 12 25.9	144561	8.91	0.69	11.45	1.07	0.57	15.0	110.3	3	K7	5	HD 269623
J05293404-6854147	05 29 34.05	-68 54 14.7	144567	12.56	0.01	12.67	0.03	0.04	275.9	77.4	1	B3:I	30	Sk-68 103
J05294716-6713575 ^a	05 29 47.16	-67 13 57.6	145298	9.55	0.62	12.08	0.85	0.53	30.5	58.9	3	...	...	...
J05295277-6636344	05 29 52.77	-66 36 34.4	...	10.40	0.26	...	...	...	14.0	89.2	3	F5	5	HD 269630
J05295616-6646486 ^a	05 29 56.16	-66 46 48.7	...	10.01	0.66	...	...	...	86.4	107.8	3	...	...	...
J05295650-6727308	05 29 56.50	-67 27 30.9	145807	12.11	0.04	12.49	0.05	0.11	300.2	100.6	1	A0Ia	1	HD 269634
J05295780-6855190	05 29 57.80	-68 55 19.1	...	8.70	0.65	...	...	...	30.1	157.2	3	...	...	...
J05300077-6958319	05 30 00.78	-69 58 32.0	...	5.13	0.86	...	...	...	33.6	69.0	3	K2III	15	HD 37122
J05300124-6714368 ^a	05 30 01.25	-67 14 36.9	...	11.64	0.08	12.01	0.07	...	299.1	105.9	1	A2Iab	8	HD 269638
J05300226-6702452 ^a	05 30 02.27	-67 02 45.2	146126	7.97	0.78	11.17	1.80	0.84	314.6	41.8	1	K5I	22	...
J05300709-6715431 ^a	05 30 07.10	-67 15 43.2	...	11.22	0.07	11.46	0.05	...	301.1	108.1	1	B7Ia+	13	HD 269639
J05300805-6824329	05 30 08.06	-68 24 32.9	146455	10.82	0.27	12.27	0.55	0.33	-4.3	124.5	3	F8	5	HD 269641
J05300849-6705368 ^a	05 30 08.49	-67 05 36.8	146480	9.91	0.75	12.76	1.11	0.64	-8.6	136.9	3	...	...	...
J05301061-7045120	05 30 10.62	-70 45 12.0	...	10.57	0.28	...	...	...	-0.2	98.9	3	G5	5	HD 269643
J05301228-7158143	05 30 12.29	-71 58 14.3	...	9.81	0.75	...	...	...	-3.1	119.0	3	...	...	...
J05301299-6624336	05 30 12.99	-66 24 33.6	...	10.27	0.69	...	...	...	16.7	64.5	3	...	...	...
J05301332-6840374	05 30 13.32	-68 40 37.5	146765	9.20	0.71	11.93	1.04	0.58	54.1	121.2	3	...	...	...
J05301486-6735568	05 30 14.86	-67 35 56.8	146857	11.26	0.33	12.80	0.62	0.40	54.8	101.5	3	...	...	...
J05301488-6658549 ^a	05 30 14.88	-66 58 54.9	...	12.02	0.03	12.20	0.03	...	304.8	87.3	1	B8I	30	Sk-67 146
J05301564-6732218	05 30 15.65	-67 32 21.8	...	11.12	0.03	11.15	-0.01	...	311.6	100.0	1	B8Ia	13	HD 269644

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05301591-7049464 ^a	05 30 15.91	-70 49 46.4	...	6.25	0.66	8.92	1.16	...	14.7	62.0	3	K1III	15	HD 37181
J05301783-6928594	05 30 17.84	-69 28 59.4	147018	11.56	0.25	12.73	0.43	0.27	-6.0	57.6	3	...	...	...
J05301885-7151310	05 30 18.86	-71 51 31.0	...	10.60	0.31	...	...	...	8.1	87.2	3	F2	5	HD 271338
J05302127-6936389	05 30 21.28	-69 36 39.0	...	10.10	0.67	...	...	...	23.1	114.4	3	...	...	...
J05302243-6705059 ^a	05 30 22.43	-67 05 06.0	147276	8.67	0.90	11.94	1.33	0.71	62.7	108.3	3	K2V	25	...
J05302256-6919389	05 30 22.57	-69 19 39.0	...	10.12	0.12	10.69	0.09	...	255.0	60.8	1	B2.5:	30	HD 269649
J05302289-6919070	05 30 22.90	-69 19 07.1	147308	10.58	0.22	11.92	0.53	0.32	11.2	81.5	3	...	...	...
J05302430-6729126	05 30 24.30	-67 29 12.7	147372	8.63	0.90	11.91	1.31	0.73	55.6	96.7	3	K2V	25	...
J05302461-7131148	05 30 24.61	-71 31 14.8	...	10.61	0.61	...	...	...	-11.4	111.0	3	...	...	...
J05302547-6657340 ^a	05 30 25.47	-66 57 34.1	...	11.72	0.10	12.29	0.13	...	280.6	72.5	1	A9I	30	Sk-66 116
J05302839-7011373	05 30 28.39	-70 11 37.3	...	6.85	0.65	...	...	...	-4.5	81.2	3	K0III	15	HD 37180
J05302968-6637217	05 30 29.68	-66 37 21.7	...	11.21	0.29	...	...	...	245.4	41.0	1	F5I	37	SOI 62
J05303245-6909119	05 30 32.45	-69 09 12.0	...	10.07	0.20	10.73	0.19	...	255.2	38.4	1	A5Ia0:	30	HD 269651
J05303293-6912122	05 30 32.93	-69 12 12.2	147902	10.86	0.30	12.31	0.55	0.34	23.8	86.8	3	...	...	...
J05303357-6800325	05 30 33.57	-68 00 32.5	...	8.33	0.62	...	...	...	23.2	154.8	3	K2	5	HD 269652
J05303397-7033139	05 30 33.98	-70 33 13.9	...	10.34	0.61	...	...	...	37.2	78.6	3	...	...	...
J05303764-6708001	05 30 37.64	-67 08 00.1	148155	10.96	0.35	12.43	0.50	0.36	27.5	101.0	3	...	...	...
J05303783-6824392	05 30 37.84	-68 24 39.2	148172	12.05	0.09	12.20	0.02	0.07	266.3	29.1	1	B0Ia	38	HD 269655
J05304010-6716379 ^a	05 30 40.11	-67 16 38.0	148305	12.26	0.03	12.34	0.01	0.05	301.9	71.1	1	B9Ia	8	...
J05304162-6924353	05 30 41.63	-69 24 35.4	148393	11.08	0.23	12.12	0.37	0.24	-15.1	57.6	3	...	...	...
J05304287-6939098	05 30 42.87	-69 39 09.9	...	9.81	0.68	...	...	...	15.0	106.5	3	...	...	...
J05304939-6709121 ^a	05 30 49.39	-67 09 12.2	...	11.77	0.10	12.20	0.09	...	277.1	74.6	1	A5I:	32	GV 338
J05304991-7037167	05 30 49.91	-70 37 16.7	...	10.25	0.63	...	...	...	5.9	93.7	3	...	...	...
J05305008-7157055	05 30 50.08	-71 57 05.6	...	8.64	0.67	11.27	1.12	...	62.7	100.8	3	K2	5	HD 271345
J05305009-6931293	05 30 50.10	-69 31 29.3	...	9.78	0.23	10.34	0.13	...	262.0	96.5	1	A0Ia+	37	HD 269661
J05305147-6902587	05 30 51.47	-69 02 58.8	...	9.50	0.28	10.35	0.24	...	247.8	43.0	1	F0Iae	36	HD 269662
J05305168-6701414 ^a	05 30 51.69	-67 01 41.5	...	11.07	0.37	...	...	...	318.4	33.0	1	F:Ib	37	SOI 228
J05305194-6738103	05 30 51.94	-67 38 10.4	149005	12.11	0.07	12.49	0.04	0.09	298.9	92.2	1	A2I	30	Sk-67 151
J05305196-7025535	05 30 51.97	-70 25 53.5	...	10.98	0.29	...	...	...	-16.4	103.4	3	...	...	...
J05305214-6841374	05 30 52.15	-68 41 37.4	149015	11.91	0.13	12.53	0.12	0.12	268.5	79.7	1	A1I	30	Sk-68 109
J05305231-6649594 ^a	05 30 52.31	-66 49 59.4	...	12.29	0.01	12.17	0.16	...	305.7	68.3	1	B8I	30	Sk-66 119
J05305310-6730516	05 30 53.11	-67 30 51.7	149065	9.12	0.82	12.09	1.21	0.68	-29.2	100.5	3	K0V	25	...
J05305376-6911409	05 30 53.77	-69 11 41.0	...	11.81	0.04	12.08	0.04	...	280.5	95.2	1	B3I	30	Sk-69 172
J05305398-6653154 ^a	05 30 53.98	-66 53 15.5	...	12.01	0.00	12.15	0.03	...	302.3	89.2	1	B8I	30	GV 341
J05305506-6647012 ^a	05 30 55.06	-66 47 01.3	...	11.80	0.10	12.16	0.07	...	298.0	91.9	1	A0I	30	Sk-66 119a
J05305564-6716162 ^a	05 30 55.65	-67 16 16.2	...	11.98	0.02	12.01	-0.02	...	308.7	62.7	1	B7I	30	Sk-67 153
J05305705-6641198 ^a	05 30 57.05	-66 41 19.9	...	12.35	0.04	12.50	0.03	...	304.6	88.2	1	A0I	30	Sk-66 120
J05305739-6701591 ^a	05 30 57.40	-67 01 59.2	...	11.08	0.35	...	...	...	26.0	130.5	3	...	...	...
J05305815-6806007	05 30 58.15	-68 06 00.7	149397	10.71	0.47	12.58	0.79	0.45	6.0	83.1	3	...	...	...
J05305942-7123486	05 30 59.43	-71 23 48.6	...	11.59	0.27	...	...	...	-7.9	100.8	3	...	...	...
J05310002-7146139	05 31 00.03	-71 46 14.0	...	10.20	0.60	...	...	...	-27.9	104.5	3	...	...	...
J05310372-6825230	05 31 03.72	-68 25 23.0	149738	8.95	0.63	11.24	0.88	0.48	38.8	82.3	3	K2	5	HD 269672
J05310613-6936475	05 31 06.14	-69 36 47.5	...	10.07	0.34	...	...	...	0.0	126.9	3	G5	5	HD 269673
J05310735-6806397	05 31 07.35	-68 06 39.8	...	9.07	0.23	...	...	...	9.8	69.8	3	F5	5	HD 269674
J05310940-7016174	05 31 09.40	-70 16 17.4	...	11.54	0.22	...	...	...	22.0	64.0	3	...	...	...
J05310951-6849296	05 31 09.52	-68 49 29.6	150058	11.46	0.17	12.50	0.40	0.25	23.7	85.2	3	...	...	...
J05310996-6740427	05 31 09.96	-67 40 42.7	150087	10.68	0.60	13.02	0.93	0.54	100.8	81.6	3	...	...	...
J05311111-7147538	05 31 11.11	-71 47 53.9	...	8.30	0.65	...	...	...	37.6	83.4	3	G5	5	HD 271351
J05311226-6825508	05 31 12.26	-68 25 50.8	150215	10.52	0.41	12.27	0.73	0.43	44.2	83.8	3	...	...	...
J05311283-6715079 ^a	05 31 12.83	-67 15 08.0	...	11.30	0.07	11.60	0.09	...	299.5	105.3	1	A1I	30	HD 269678

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s ⁻¹)	Category ^d	Class	Ref. ^e	Comments
J05311586-6710252 ^a	05 31 15.86	-67 10 25.2	150415	11.71	0.07	12.20	0.07	0.09	282.3	78.2	1	A4I	30	HD 269682
J05311768-6929225	05 31 17.69	-69 29 22.6	150522	10.51	0.67	13.13	1.02	0.56	34.5	86.3	3	...	...	...
J05311793-6709251	05 31 17.93	-67 09 25.1	...	11.45	0.06	11.51	0.01	...	322.2	93.4	1	B9Ia	4	HD 269684
J05312180-7057254	05 31 21.80	-70 57 25.4	...	10.33	0.65	...	...	...	270.9	47.6	1	K5	5	HD 269680
J05312196-6645185 ^a	05 31 21.97	-66 45 18.5	...	10.96	0.37	...	...	...	5.2	81.3	3	...	...	...
J05312353-7059205	05 31 23.54	-70 59 20.5	...	10.58	0.25	...	...	...	-12.9	74.2	3	F2	5	HD 269681
J05312514-7026479	05 31 25.14	-70 26 47.9	...	9.64	0.70	...	...	...	40.7	80.1	3	K5	5	HD 269685
J05312518-6722512	05 31 25.19	-67 22 51.3	150950	9.40	0.60	11.85	0.99	0.55	28.8	161.7	3	...	...	...
J05312554-6905384	05 31 25.55	-69 05 38.4	...	11.72	0.10	11.90	-0.07	...	49.2	12.8	3	Ofpe/WN9	2	HD 269687
J05312597-6917255	05 31 25.98	-69 17 25.5	...	11.69	0.03	12.07	0.08	...	285.3	67.4	1	B9I	30	Sk-69 174
J05312793-6724442	05 31 27.93	-67 24 44.2	...	11.83	0.01	11.95	0.00	...	322.2	95.2	1	B9Ia	8	HD 269689
J05312818-6703228 ^a	05 31 28.19	-67 03 22.9	151092	8.81	0.92	12.99	1.28	0.89	299.8	46.2	1	...	...	...
J05312849-6852596	05 31 28.50	-68 52 59.6	...	12.24	0.00	12.30	-0.04	...	280.0	36.4	1	B2:	30	Sk-68 113
J05312962-6641595 ^a	05 31 29.62	-66 41 59.5	...	12.18	0.04	12.46	0.04	...	305.9	87.5	1	A1I	30	Sk-66 124
J05313260-6913204	05 31 32.60	-69 13 20.4	151335	11.68	0.21	12.91	0.43	0.29	-8.0	68.0	3	...	...	...
J05313677-7149176	05 31 36.77	-71 49 17.7	...	11.18	0.38	...	...	...	38.1	88.3	3	...	...	...
J05313841-6728116	05 31 38.42	-67 28 11.6	...	9.18	0.30	10.28	0.41	...	259.6	36.9	1	F6Ia	1	HD 269697
J05314006-6929149	05 31 40.06	-69 29 14.9	151720	10.28	0.57	12.64	0.94	0.49	74.0	85.6	3	...	...	...
J05314111-7042524	05 31 41.12	-70 42 52.5	...	12.21	0.01	12.25	-0.04	...	237.8	76.2	1	B3I	30	HD 269694
J05314410-6700101 ^a	05 31 44.11	-67 00 10.2	...	12.27	0.01	12.88	-0.04	...	304.5	33.5	1	B2.5	30	Sk-67 165
J05314421-6807540	05 31 44.22	-68 07 54.0	151939	10.00	0.73	12.72	1.13	0.61	3.4	81.7	3	...	...	...
J05314485-6740013	05 31 44.85	-67 40 01.3	151962	11.40	0.30	12.80	0.46	0.33	30.8	58.0	3	...	...	...
J05314702-6820015	05 31 47.02	-68 20 01.5	152098	9.91	0.61	12.45	1.01	0.62	11.9	90.5	3	...	...	...
J05314932-6913146	05 31 49.33	-69 13 14.6	152239	11.83	0.04	12.10	0.04	0.07	268.4	87.6	1	B4I	30	Sk-69 177
J05315227-6832388	05 31 52.27	-68 32 38.9	...	10.32	0.14	10.55	0.02	...	272.9	20.2	1	BN?2Ia+	13	HD 269700
J05315298-6712152 ^a	05 31 52.98	-67 12 15.3	152433	12.32	0.02	12.52	0.02	0.07	304.9	68.3	1	A1Iab	8	Sk-67 170
J05315815-6748542	05 31 58.15	-67 48 54.3	...	7.15	0.64	...	...	...	74.5	89.3	3	K0	5	HD 269707
J05315890-6909392	05 31 58.91	-69 09 39.2	...	6.76	0.87	...	...	...	18.5	69.3	3	K2/3III	15	HD 269704
J05320077-6720230 ^a	05 32 00.77	-67 20 23.1	152843	12.00	0.01	12.08	0.04	0.06	311.3	84.6	1	B8Ia	8	Sk-67 171
J05320292-6749133	05 32 02.92	-67 49 13.4	152965	11.15	0.33	12.66	0.57	0.37	-8.4	121.8	3	...	...	...
J05320373-6639287	05 32 03.73	-66 39 28.7	...	11.87	0.14	12.51	0.24	...	276.8	53.9	1	A9I	30	GV 359
J05320376-7036268	05 32 03.77	-70 36 26.9	...	8.54	0.68	...	...	...	23.9	102.8	3	K7	5	HD 269703
J05321528-7104248	05 32 15.28	-71 04 24.8	...	10.54	0.36	...	...	...	23.0	84.0	3	F8	5	HD 269709
J05321594-7029315	05 32 15.94	-70 29 31.6	...	9.96	0.67	...	...	...	46.8	77.4	3	...	...	...
J05321914-6659524 ^a	05 32 19.14	-66 59 52.5	...	11.27	0.08	11.52	0.04	...	297.5	92.4	1	B7I	30	HD 269721
J05321926-7048393	05 32 19.26	-70 48 39.4	...	9.19	0.66	...	...	...	-21.6	82.4	3	F8	5	HD 269711
J05322128-6641190	05 32 21.29	-66 41 19.1	...	11.83	0.05	12.05	0.04	...	302.7	113.5	1	A0I	30	Sk-66 130
J05322171-6643340 ^a	05 32 21.71	-66 43 34.1	...	11.78	0.08	...	...	...	297.5	90.8	1	A0I	30	Sk-66 129
J05322496-6741536	05 32 24.96	-67 41 53.7	...	7.69	0.54	9.91	1.07	...	307.3	45.3	1	G4	21	HD 269723
J05322642-6842253	05 32 26.43	-68 42 25.3	...	10.24	0.37	...	...	...	27.6	144.7	3	...	...	...
J05322891-6731550	05 32 28.91	-67 31 55.1	...	11.72	0.07	...	...	...	301.8	88.5	1	B8:I	30	HD 269726
J05323000-6711465 ^a	05 32 30.00	-67 11 46.5	154467	12.08	0.03	12.49	0.07	0.07	296.3	75.6	1	A2II:	32	HD 269728
J05323122-7102280	05 32 31.23	-71 02 28.1	...	10.12	0.91	...	...	...	239.2	50.8	1	...	...	...
J05323171-6804533	05 32 31.71	-68 04 53.3	154556	8.51	0.78	11.61	1.30	0.72	49.4	52.9	3	M0	5	HD 269727
J05323233-6713596 ^a	05 32 32.34	-67 13 59.7	154579	10.83	0.23	12.08	0.45	0.31	27.2	92.9	3	F2Ib	37	SOI 241
J05323656-7048246 ^a	05 32 36.56	-70 48 24.6	...	11.08	0.20	12.09	0.32	...	204.4	42.7	1	F5I	30	HD 269719
J05324155-6849096	05 32 41.56	-68 49 09.6	155045	11.00	0.45	12.88	0.71	0.42	-7.1	131.9	3	...	...	...
J05324218-6740503	05 32 42.19	-67 40 50.3	...	10.19	0.30	...	...	...	7.2	82.2	3	G0	5	HD 269733
J05324284-7041294	05 32 42.84	-70 41 29.4	...	8.99	0.22	9.88	0.40	...	15.7	83.0	3	F2IV/V	17	HD 37502
J05324479-6843517	05 32 44.80	-68 43 51.8	155223	10.52	0.54	12.70	0.80	0.48	43.7	88.9	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05324490-6652292 ^a	05 32 44.90	-66 52 29.2	...	12.02	0.10	12.93	0.07	...	295.8	74.6	1	A0Ib	37	GV 370
J05324906-7142176	05 32 49.07	-71 42 17.7	...	10.47	0.51	...	...	...	18.4	107.1	3	...	...	...
J05325176-7012432	05 32 51.76	-70 12 43.2	...	10.36	0.39	...	...	...	25.7	99.5	3	K0	5	HD 269731
J05325390-6953180	05 32 53.91	-69 53 18.0	...	10.95	0.30	...	...	...	-9.9	128.4	3	K2	5	HD 269732
J05325789-6650341 ^a	05 32 57.89	-66 50 34.1	...	11.64	0.04	11.83	0.04	...	301.0	66.8	1	B9I	30	HD 269741
J05325816-6733214	05 32 58.16	-67 33 21.5	155915	11.98	0.13	12.45	0.08	0.13	302.6	80.3	1	A0:I	30	Sk-67 183
J05325896-6823505	05 32 58.96	-68 23 50.6	155955	10.46	0.64	13.03	1.25	0.57	2.1	48.0	3	...	...	...
J05325988-6849254	05 32 59.88	-68 49 25.5	...	12.12	0.04	12.17	0.01	...	275.2	27.9	1	B2	30	Sk-68 121
J05330019-6728300	05 33 00.20	-67 28 30.1	156028	9.57	0.63	12.01	0.98	0.55	52.6	115.1	3	...	...	...
J05330109-6922292	05 33 01.09	-69 22 29.3	...	10.99	0.14	11.71	0.16	...	248.6	98.7	1	A5Ia:	1	HD 269735
J05330175-6648053 ^a	05 33 01.76	-66 48 05.4	...	9.58	0.83	12.72 ^b	1.51 ^b	...	308.9	55.3	1	...	...	RM 1-586
J05330207-6920560	05 33 02.08	-69 20 56.0	156144	10.13	0.34	11.66	0.61	0.35	30.6	127.3	3	...	...	...
J05330612-6805523	05 33 06.12	-68 05 52.3	156353	10.10	0.63	12.61	1.04	0.60	12.4	87.6	3	...	...	...
J05330794-6731593	05 33 07.95	-67 31 59.3	156461	12.56	0.00	12.74	0.01	0.06	295.8	89.7	1	A0Ia	37	SOI 246
J05330825-6806265	05 33 08.26	-68 06 26.6	156472	8.73	0.80	11.69	1.25	0.65	1.0	98.5	3	K7	5	HD 269742
J05330861-6856022	05 33 08.61	-68 56 02.2	156491	10.05	0.65	12.43	0.98	0.54	-2.8	120.4	3	...	...	...
J05330966-7145235	05 33 09.66	-71 45 23.6	...	10.81	0.32	...	...	...	-2.2	74.1	3	F6Ia	37	HD 271378
J05331003-6743596	05 33 10.03	-67 43 59.7	156561	9.50	0.68	12.26	1.03	0.61	319.3	37.6	1	...	...	...
J05331458-6829278	05 33 14.59	-68 29 27.9	156804	10.03	0.70	12.66	1.07	0.58	8.8	82.8	3	...	...	...
J05331546-6834383	05 33 15.46	-68 34 38.4	...	7.76	0.62	...	...	...	14.4	104.0	3	G5	5	HD 269747
J05332202-7013480	05 33 22.03	-70 13 48.1	...	11.75	0.20	...	...	...	17.8	27.3	3	...	...	...
J05332283-6940583	05 33 22.83	-69 40 58.4	...	8.98	0.62	...	...	...	20.5	137.0	3	K5	5	HD 269746
J05332691-6729082	05 33 26.91	-67 29 08.3	...	11.58	0.06	...	...	...	299.8	29.7	1	B3:I	30	Sk-67 189
J05333100-7102392	05 33 31.01	-71 02 39.3	...	10.09	0.42	...	...	...	10.6	85.8	3	G0	5	HD 269744
J05333163-6752197	05 33 31.64	-67 52 19.7	157646	11.38	0.25	12.59	0.47	0.30	12.2	59.1	3	...	...	...
J05333457-6928353	05 33 34.58	-69 28 35.4	157811	11.74	0.18	12.91	0.44	0.31	17.3	37.2	3	...	...	...
J05334007-6728564	05 33 40.08	-67 28 56.5	158100	10.31	0.38	11.88	0.61	0.39	18.6	100.5	3	...	...	...
J05334034-6906579	05 33 40.34	-69 06 58.0	158115	12.11	0.12	12.67	0.17	0.14	280.5	42.6	1	B5:I	30	Sk-69 185
J05334107-6816041	05 33 41.07	-68 16 04.1	158147	10.39	0.33	11.97	0.61	0.37	42.3	72.5	3	G5	5	HD 269760
J05334176-6711470 ^a	05 33 41.77	-67 11 47.0	158179	10.17	0.63	12.70	1.01	0.58	73.7	79.6	3	...	...	...
J05334489-6700006	05 33 44.90	-67 00 00.7	...	11.85	0.13	...	...	...	285.3	70.6	1	A5I	30	GV 381
J05334570-6805512	05 33 45.71	-68 05 51.2	158369	11.33	0.28	12.62	0.47	0.31	5.7	57.6	3	...	...	...
J05334763-7026181	05 33 47.64	-70 26 18.2	...	10.09	0.09	...	...	...	44.0	18.5	3	A2	5	HD 269753
J05335125-6946468	05 33 51.26	-69 46 46.8	...	8.19	0.64	...	...	...	21.9	130.1	3	G8/K0	15	HD 269757
J05335418-6652465 ^a	05 33 54.18	-66 52 46.6	...	9.93	0.82	...	...	...	108.8	76.9	3	...	...	...
J05335751-6651171 ^a	05 33 57.52	-66 51 17.1	...	11.25	0.06	11.38	0.02	...	306.3	107.1	1	B8Ia	4	HD 269766
J05335837-7212586	05 33 58.37	-72 12 58.7	...	10.77	0.31	...	...	...	-2.8	69.9	3	...	...	...
J05335901-6702163 ^a	05 33 59.02	-67 02 16.4	...	7.46	0.65	...	...	...	21.0	124.4	3	G5	5	HD 269765
J05335906-6732157	05 33 59.07	-67 32 15.7	158955	11.85	0.17	12.34	0.01	0.11	313.1	50.4	1	B7I	30	Sk-67 197
J05335973-6823373	05 33 59.73	-68 23 37.4	158984	9.63	0.79	12.65	1.22	0.67	26.2	116.2	3	...	...	...
J05340114-7042440 ^a	05 34 01.15	-70 42 44.0	...	11.92	0.10	12.40	0.07	...	244.8	86.5	1	A2I	30	HD 269758
J05340289-6732406	05 34 02.90	-67 32 40.7	159129	9.89	0.51	11.92	0.75	0.46	-18.0	93.1	3	...	...	...
J05340302-6700596 ^a	05 34 03.02	-67 00 59.6	...	11.77	0.02	11.91	0.00	...	309.4	89.4	1	B7I	30	Sk-67 198
J05340316-6658096 ^a	05 34 03.16	-66 58 09.6	...	10.73	0.53	...	...	...	-0.1	109.2	3	...	...	...
J05340372-6720428	05 34 03.72	-67 20 42.9	...	7.05	0.74	...	...	...	3.4	100.8	3	K0III:	1	HD 269767
J05340454-7045118 ^a	05 34 04.54	-70 45 11.9	...	11.01	0.38	...	...	...	13.2	74.3	3	...	...	...
J05340641-7039258 ^a	05 34 06.41	-70 39 25.9	...	10.39	0.73	...	...	...	38.8	77.2	3	...	...	...
J05340862-6715029 ^a	05 34 08.63	-67 15 03.0	...	7.30	0.70	...	...	...	21.9	82.5	3	M0	5	HD 269771
J05340996-6859127	05 34 09.97	-68 59 12.7	...	11.12	0.04	11.37	0.08	...	285.1	109.7	1	B9Ia0:	1	HD 269762
J05341091-7210483	05 34 10.92	-72 10 48.4	...	11.30	0.36	...	...	...	50.0	84.5	3	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05341110-6925446	05 34 11.11	-69 25 44.6	...	10.89	0.22	11.85	0.29	...	235.4	50.6	1	F2I	30	GV 387
J05341846-6718137	05 34 18.46	-67 18 13.7	...	11.01	0.05	11.06	-0.01	...	291.2	42.3	1	B3Ia	13	HD 269777
J05341903-7052541	05 34 19.03	-70 52 54.1	...	11.55	0.25	...	...	...	13.5	61.2	3	...	...	...
J05342246-6701235 ^a	05 34 22.46	-67 01 23.6	...	9.47	0.13	9.89	0.07	...	339.8	76.4	1	A0Ia(e)	1	HD 269781
J05342265-6733506	05 34 22.66	-67 33 50.6	...	11.68	0.24	...	...	...	7.1	68.8	3	...	...	...
J05342312-7035185	05 34 23.13	-70 35 18.5	...	11.32	0.30	...	...	...	22.2	83.1	3	F0Ia	37	SOI 808
J05342422-6900310	05 34 24.22	-69 00 31.1	...	11.68	0.17	12.25	0.14	...	258.4	94.3	1	A3I	30	Sk-69 190
J05342808-6825503	05 34 28.09	-68 25 50.3	160261	10.53	0.62	12.99	1.00	0.54	7.1	83.8	3	...	...	...
J05342839-7021442	05 34 28.40	-70 21 44.3	...	11.26	0.30	...	...	...	14.7	61.5	3	...	...	...
J05343086-6946517 ^a	05 34 30.86	-69 46 51.8	...	12.33	0.02	12.10	-0.09	...	278.0	21.4	1	B0.5I	26	HD 269769
J05343134-6827563	05 34 31.34	-68 27 56.3	160401	10.54	0.24	11.89	0.55	0.31	9.6	76.2	3	F5	5	HD 269778
J05343330-6946060 ^a	05 34 33.30	-69 46 06.0	...	8.88	0.62	...	...	...	6.2	89.7	3	K5	5	HD 269770
J05343435-6658234 ^a	05 34 34.36	-66 58 23.4	...	10.42	0.07	10.81	0.12	...	304.1	84.0	1	A0Ia	4	HD 269787
J05343579-6643332	05 34 35.80	-66 43 33.2	...	10.95	0.19	...	...	...	20.6	68.3	3	A7	5	HD 269792
J05343592-6708287 ^a	05 34 35.93	-67 08 28.7	...	9.65	0.13	...	...	...	28.1	25.6	3	A7	5	HD 269789
J05343609-6945365 ^a	05 34 36.10	-69 45 36.5	...	12.30	0.05	11.98	-0.08	...	217.0	25.3	2	B0I	26	Sk-69 194
J05343733-6817141	05 34 37.34	-68 17 14.2	160668	11.47	0.27	12.82	0.53	0.34	23.4	79.3	3	...	...	...
J05343806-6813517	05 34 38.06	-68 13 51.8	...	9.70	0.22	...	...	...	17.7	59.0	3	Gn	5	HD 269782
J05343847-6659034 ^a	05 34 38.48	-66 59 03.4	...	9.98	0.90	...	...	...	315.0	45.3	1	...	...	...
J05343849-6654201	05 34 38.50	-66 54 20.2	...	9.35	0.80	...	...	...	36.0	85.0	3	...	...	...
J05344003-6730095	05 34 40.04	-67 30 09.5	160784	11.63	0.22	12.51	0.20	0.18	268.7	58.0	1	F0I:	32	HD 269790
J05344318-6654082 ^a	05 34 43.19	-66 54 08.3	...	9.30	0.14	...	...	...	16.4	20.6	3	A5	5	HD 269796
J05344326-6704104	05 34 43.27	-67 04 10.5	160907	8.57	0.82	11.92	1.73	0.81	302.9	45.1	1	...	...	...
J05344387-6928187 ^a	05 34 43.88	-69 28 18.7	...	8.64	0.05	8.91	0.06	...	45.9	12.9	3	A1V	17	HD 37722
J05344989-6704179 ^a	05 34 49.89	-67 04 17.9	161194	9.10	0.71	11.88	1.14	0.62	-12.4	108.5	3	...	...	...
J05345016-6721124	05 34 50.17	-67 21 12.5	...	10.66	0.04	10.88	0.04	...	289.6	100.0	1	B9Ia	13	HD 269797
J05345377-6908020 ^a	05 34 53.77	-69 08 02.1	161356	9.69	0.88	13.51	1.80	0.93	267.0	42.1	1	...	...	...
J05345586-6653559 ^a	05 34 55.86	-66 53 55.9	...	9.46	0.24	...	...	...	10.4	69.6	3	G0	5	HD 269806
J05345616-6948000	05 34 56.17	-69 48 00.0	...	9.60	0.91	...	...	...	112.4	73.2	3	...	...	...
J05345771-6943542 ^a	05 34 57.72	-69 43 54.2	...	12.19	0.01	12.15	-0.03	...	303.8	31.7	1	B1.5I	26	Sk-69 197
J05345799-6953202	05 34 57.99	-69 53 20.3	...	10.65	0.28	...	...	...	-27.4	79.0	3	...	...	...
J05345824-7143575	05 34 58.24	-71 43 57.6	...	8.97	0.58	...	...	...	60.5	91.3	3	G5	5	HD 271407
J05350023-6701126 ^a	05 35 00.24	-67 01 12.7	...	10.29	0.11	10.85	0.16	...	285.5	70.1	1	A5Ia	1	HD 269807
J05350327-6818383	05 35 03.28	-68 18 38.3	...	7.40	0.81	...	...	...	0.6	81.9	3	K7	5	HD 269800
J05350352-7111136	05 35 03.53	-71 11 13.6	...	10.10	0.90	...	...	...	101.0	46.9	3	...	...	...
J05350360-6945020	05 35 03.60	-69 45 02.0	...	11.05	0.04	11.18	0.01	...	287.9	36.5	1	B1I	26	HD 269786
J05350536-6651457	05 35 05.36	-66 51 45.8	...	9.97	0.62	...	...	...	2.6	109.9	3	...	...	...
J05350854-6828115	05 35 08.55	-68 28 11.5	...	10.22	0.25	...	...	...	31.7	67.5	3	G5	5	HD 269802
J05350917-7210544	05 35 09.18	-72 10 54.4	...	11.06	0.43	...	...	...	33.2	102.6	3	...	...	...
J05351135-6726150	05 35 11.36	-67 26 15.0	162055	11.23	0.32	12.81	0.59	0.37	17.5	114.4	3	...	...	...
J05351324-6914345 ^a	05 35 13.25	-69 14 34.5	162129	11.96	0.16	12.73	0.20	0.15	280.6	79.0	1	...	...	...
J05351951-7140358	05 35 19.52	-71 40 35.9	...	5.28	0.77	...	...	...	-5.8	62.2	3	G8III	17	HD 37936
J05352293-7147222	05 35 22.94	-71 47 22.2	...	10.45	0.75	...	...	...	104.0	70.0	3	...	...	...
J05352510-6723126	05 35 25.10	-67 23 12.7	...	9.81	0.27	...	...	...	16.8	95.1	3	G0	5	HD 269821
J05352602-7034458	05 35 26.03	-70 34 45.8	...	11.74	0.23	...	...	...	-1.2	47.2	3	...	...	...
J05352715-6913524 ^a	05 35 27.15	-69 13 52.4	...	12.05	0.08	12.29	0.01	...	305.8	26.8	1	B0.7Ia	13	Sk-69 203
J05353030-6815035	05 35 30.31	-68 15 03.6	162884	9.46	0.72	12.18	1.08	0.59	214.1	83.2	1	...	...	...
J05353110-6645242	05 35 31.11	-66 45 24.3	...	10.95	0.21	11.90	0.33	...	277.0	44.0	1	F0Ia:	1	Sk-66 161
J05353234-6706557	05 35 32.34	-67 06 55.8	162990	9.01	0.88	12.30	1.35	0.74	-5.2	100.7	3	...	...	...
J05353631-6739255	05 35 36.31	-67 39 25.5	...	10.32	0.22	...	...	...	-10.6	102.3	3	A	5	HD 269827

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05353846-6856490	05 35 38.47	-68 56 49.1	163232	12.45	0.01	12.62	0.01	0.09	311.6	27.4	1	BII	26	Sk-68 126
J05354142-7104276	05 35 41.42	-71 04 27.7	...	11.60	0.25	...	...	...	2.2	52.0	3	...	...	...
J05354159-6951148	05 35 41.59	-69 51 14.8	...	10.91	0.22	11.82	0.26	...	240.5	55.7	1	A8I	19	HD 269809
J05354259-7028415	05 35 42.59	-70 28 41.5	...	10.59	0.69	...	...	...	11.7	42.0	3	...	...	...
J05354328-6648028	05 35 43.29	-66 48 02.9	...	9.98	0.29	10.96	0.42	...	1.5	37.9	3	F8	5	HD 269842
J05354788-6817469	05 35 47.88	-68 17 46.9	...	8.34	0.57	...	...	...	-8.8	142.3	3	K0	5	HD 269829
J05354942-6642017	05 35 49.42	-66 42 01.8	...	11.00	0.38	12.36	0.36	...	269.0	66.5	1	...	...	HV 1002
J05355003-6822089	05 35 50.04	-68 22 08.9	163727	9.18	0.71	11.82	1.13	0.60	39.7	76.7	3	...	...	...
J05355068-6929178	05 35 50.69	-69 29 17.9	163769	7.18	0.64	12.22	1.02	0.57	37.7	89.9	3	K0	5	HD 269820
J05355079-6726294	05 35 50.79	-67 26 29.5	...	11.33	0.09	11.81	0.11	...	293.4	96.3	1	A0Ia	4	HD 269841
J05355098-6716205	05 35 50.99	-67 16 20.6	163769	9.74	0.65	12.22	1.02	0.57	48.6	100.4	3	...	...	...
J05355860-6813237	05 35 58.60	-68 13 23.7	164145	11.59	0.28	12.81	0.41	0.29	6.7	27.1	3	...	...	...
J05355957-6815319	05 35 59.57	-68 15 31.9	164187	10.94	0.37	12.45	0.48	0.34	-31.9	58.3	3	...	...	...
J05360114-6650418	05 36 01.14	-66 50 41.8	...	9.96	0.66	...	...	...	308.7	59.0	1	...	...	...
J05360153-6652124	05 36 01.54	-66 52 12.4	...	8.19	0.67	...	...	...	57.2	133.1	3	F8	5	HD 269855
J05360378-6901300 ^a	05 36 03.79	-69 01 30.1	164379	11.61	0.17	12.65	0.30	0.23	288.5	26.5	1	B1.5I	26	Sk-69 210
J05360450-6924083 ^a	05 36 04.51	-69 24 08.4	...	9.86	0.14	10.36	0.09	...	254.0	73.8	1	B9Ia	12	HD 269832
J05360882-6656143	05 36 08.82	-66 56 14.4	...	10.35	0.45	...	...	...	9.9	79.6	3	...	...	...
J05361007-6855411 ^a	05 36 10.08	-68 55 41.1	...	8.99	0.31	10.32	0.42	...	257.8	42.9	1	F3Ia	1	HD 269840
J05361020-7212392	05 36 10.21	-72 12 39.2	...	10.77	0.39	...	...	...	61.8	81.1	3	G	5	HD 271428
J05361077-6740108	05 36 10.77	-67 40 10.8	164728	10.21	0.61	12.64	0.97	0.55	77.0	94.6	3	...	...	...
J05361551-6651276	05 36 15.51	-66 51 27.6	...	11.17	0.35	...	...	...	-3.8	96.9	3	...	...	...
J05361569-6857527 ^a	05 36 15.69	-68 57 52.8	165002	10.32	0.63	12.79	0.95	0.54	15.3	93.2	3	...	...	...
J05361643-6931270	05 36 16.44	-69 31 27.1	...	12.17	0.01	12.19	0.01	...	276.7	17.4	1	B0.7Ia	13	Sk-69 214
J05361710-6911036 ^a	05 36 17.10	-69 11 03.6	...	11.60	0.08	12.16	-0.01	...	266.1	38.0	1	BC1Ia	13	Sk-69 213
J05361762-6730285	05 36 17.63	-67 30 28.5	...	10.51	0.22	...	...	...	18.2	50.8	3	A5	5	HD 269861
J05362147-6906478 ^a	05 36 21.47	-69 06 47.8	...	11.32	0.12	11.63	0.07	...	285.4	44.1	1	O9/B0	38	HD 269846
J05362422-6646270	05 36 24.23	-66 46 27.0	...	10.22	0.24	...	...	...	10.4	69.1	3	G5	5	HD 269873
J05362519-6941315	05 36 25.19	-69 41 31.6	...	9.69	0.56	...	...	...	299.2	37.4	1	...	...	...
J05362618-6853156	05 36 26.19	-68 53 15.7	165514	10.29	0.74	13.06	1.09	0.57	55.9	71.2	3	...	...	...
J05362905-7208257	05 36 29.06	-72 08 25.8	...	10.48	0.59	...	...	...	23.2	125.8	3	...	...	...
J05362946-6901345 ^a	05 36 29.46	-69 01 34.5	165668	9.86	0.59	12.21	0.92	0.50	46.1	93.8	3	...	...	...
J05363198-6702411	05 36 31.99	-67 02 41.1	165776	10.51	0.58	12.84	0.91	0.53	-3.2	98.1	3	...	...	...
J05363237-6854015	05 36 32.37	-68 54 01.5	...	9.22	0.25	10.29	0.35	...	244.3	69.1	1	A9Ia	1	HD 269857
J05363444-6740313	05 36 34.44	-67 40 31.4	165879	10.96	0.33	12.36	0.46	0.30	286.7	29.4	1	F5:I	1	HD 269868
J05363488-6650431	05 36 34.88	-66 50 43.2	...	10.37	0.55	...	...	...	27.0	114.8	3	...	...	...
J05363591-6937318	05 36 35.91	-69 37 31.9	...	10.53	0.21	...	...	...	36.5	80.2	3	F5	5	HD 269851
J05364081-6639010	05 36 40.81	-66 39 01.1	...	11.32	0.29	...	...	...	12.6	73.1	3	...	...	...
J05364307-6908536 ^a	05 36 43.07	-69 08 53.7	...	10.12	0.32	11.69	0.40	...	261.9	61.0	1	F0Ia	4	HD 269860
J05364719-6645459	05 36 47.19	-66 45 46.0	...	8.89	0.46	10.90	1.08	...	314.7	46.2	1	G2Ia	4	HD 269879
J05365100-6946387	05 36 51.00	-69 46 38.8	...	9.45	0.70	...	...	...	72.4	71.2	3	...	...	...
J05365465-6638224	05 36 54.66	-66 38 22.5	...	11.89	0.01	12.56	-0.13	...	267.5	20.4	1	O9.7Ia+	13	Sk-66 169
J05365682-6916183 ^a	05 36 56.83	-69 16 18.4	166972	11.36	0.18	12.21	0.22	0.20	275.8	109.1	1	B8I	30	Sk-69 225
J05365770-6705270	05 36 57.70	-67 05 27.0	167023	10.86	0.35	12.35	0.53	0.35	4.2	71.0	3	...	...	...
J05365896-6658153	05 36 58.96	-66 58 15.3	...	10.78	0.46	...	...	...	26.5	127.6	3	...	...	...
J05370262-6938350	05 37 02.63	-69 38 35.1	...	11.89	0.17	12.23	0.04	...	262.6	39.6	1	O/B0	30	Sk-69 227
J05370470-6705140	05 37 04.70	-67 05 14.0	...	8.61	0.58	...	...	...	-25.6	95.4	3	G5	5	HD 269886
J05370722-6726075	05 37 07.23	-67 26 07.5	167460	10.48	0.32	12.03	0.63	0.36	14.3	114.4	3	G5	5	HD 269884
J05370919-6920196 ^a	05 37 09.20	-69 20 19.6	...	11.96	0.04	12.12	0.07	...	254.7	29.6	1	BC1.5Ia	13	Sk-69 228
J05370943-6919283 ^a	05 37 09.43	-69 19 28.3	167562	11.42	0.15	12.26	0.22	0.19	246.8	73.0	1	...	...	...

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s ⁻¹)	Category ^d	Class	Ref. ^e	Comments
J05371004-6653069	05 37 10.04	-66 53 07.0	...	10.43	0.58	...	...	...	14.4	81.5	3	...	...	...
J05371870-6700021	05 37 18.71	-67 00 02.2	...	11.17	0.26	...	...	...	-5.6	68.0	3	...	...	...
J05372422-6925560 ^a	05 37 24.22	-69 25 56.0	...	11.62	0.08	12.09	0.12	...	261.2	109.9	1	B3:I	30	Sk-69 230
J05372609-6724232	05 37 26.09	-67 24 23.3	168278	9.46	0.67	12.11	1.07	0.58	33.4	106.8	3	...	...	...
J05372688-7041053	05 37 26.88	-70 41 05.3	...	6.13	0.85	...	...	...	19.5	68.4	3	K1/2III	15	HD 38174
J05373583-6927353 ^a	05 37 35.83	-69 27 35.4	...	10.85	0.19	...	...	...	26.7	34.8	3	...	...	...
J05373844-6641158	05 37 38.45	-66 41 15.8	...	9.34	0.58	...	...	...	-11.6	142.2	3	...	...	...
J05374050-6729193	05 37 40.50	-67 29 19.4	168928	9.72	0.57	12.08	0.91	0.53	9.3	81.8	3	...	...	...
J05374398-6910358 ^a	05 37 43.98	-69 10 35.9	169094	10.76	0.25	11.95	0.44	0.29	29.0	85.5	3	...	...	...
J05374488-6721133	05 37 44.89	-67 21 13.4	169134	10.92	0.25	12.13	0.45	0.29	0.9	93.7	3	A:	5	HD 269909
J05374537-6804527	05 37 45.37	-68 04 52.8	169152	10.04	0.80	13.03	1.18	0.65	88.9	107.3	3	...	...	...
J05374903-6905082 ^a	05 37 49.03	-69 05 08.3	...	10.73	0.22	11.34	0.17	...	242.9	39.9	1	B1I	28	HD 269891
J05374913-6855016 ^a	05 37 49.13	-68 55 01.7	...	11.16	0.07	11.34	0.01	...	280.1	25.7	1	ON9.7Ia+	39	HD 269896
J05375997-6732180	05 37 59.98	-67 32 18.0	169803	9.21	0.61	11.68	1.03	0.56	-3.8	142.1	3	K0	5	HD 269918
J05380127-6922140 ^a	05 38 01.28	-69 22 14.0	...	12.18	0.01	12.08	-0.03	...	270.1	24.5	1	B1Ia	13	Sk-69 237
J05380170-7159554	05 38 01.71	-71 59 55.4	...	10.76	0.46	...	...	...	-9.0	118.8	3	...	...	...
J05380296-6928130 ^a	05 38 02.96	-69 28 13.0	169915	8.84	0.70	11.51	1.08	0.57	15.4	88.4	3	...	...	...
J05380758-6826381	05 38 07.58	-68 26 38.2	...	8.65	0.31	...	...	...	19.7	100.7	3	F5	5	HD 269910
J05380957-6906213 ^a	05 38 09.57	-69 06 21.4	...	8.97	0.31	10.23	0.36	...	251.1	86.2	1	A0I	30	HD 269902
J05381054-6920340 ^a	05 38 10.54	-69 20 34.1	170232	9.96	0.60	12.28	0.95	0.50	21.5	141.0	3	...	...	...
J05381119-6654093	05 38 11.19	-66 54 09.4	...	11.67	0.23	...	...	...	39.2	70.7	3	...	...	...
J05381609-6803565	05 38 16.09	-68 03 56.6	170456	9.98	0.69	12.65	1.09	0.60	2.2	82.5	3	...	...	...
J05382051-6921057 ^a	05 38 20.52	-69 21 05.8	...	10.79	0.31	...	...	...	6.7	75.7	3	...	...	...
J05382284-6956127	05 38 22.84	-69 56 12.7	...	11.24	0.24	...	...	...	-5.8	81.3	3	...	...	...
J05382694-6825439	05 38 26.95	-68 25 44.0	170890	10.09	0.64	12.61	1.06	0.55	71.6	67.7	3	...	...	...
J05383697-6905077	05 38 36.97	-69 05 07.8	...	11.38	0.20	12.02	0.10	...	270.8	33.4	1	B1Ia	27	RMC 137
J05383706-6822150	05 38 37.06	-68 22 15.1	171341	10.91	0.38	12.46	0.58	0.36	49.0	65.8	3	...	...	...
J05383886-6908144 ^a	05 38 38.87	-69 08 14.5	171417	10.70	0.49	12.46	0.60	0.36	277.8	69.7	1	BN6Iap	40	HTR 13
J05384249-6923091 ^a	05 38 42.50	-69 23 09.2	...	11.41	0.00	11.49	0.00	...	278.1	59.0	1	B3Ia	13	HD 269920
J05384252-6852391 ^a	05 38 42.52	-68 52 39.2	171568	10.23	0.71	12.77	1.01	0.60	44.9	55.2	3	...	...	...
J05384503-6658265	05 38 45.04	-66 58 26.6	...	11.53	0.29	...	...	...	16.5	72.5	3	...	...	...
J05384523-6709086	05 38 45.24	-67 09 08.6	171690	10.47	0.30	11.76	0.47	0.31	9.4	74.5	3	F8	5	HD 269939
J05384993-6944269	05 38 49.93	-69 44 27.0	...	8.30	0.14	...	...	...	-2.1	53.7	3	F2V	17	HD 38329
J05385121-6718471	05 38 51.22	-67 18 47.1	171953	9.93	0.87	13.23	1.19	0.78	122.9	82.9	3	...	...	...
J05385468-6907446 ^a	05 38 54.68	-69 07 44.6	172087	10.05	0.59	12.37	0.96	0.53	22.9	133.0	3	K0V	27	HTR 20
J05385678-7011547	05 38 56.79	-70 11 54.7	...	9.94	0.87	...	...	...	49.2	77.3	3	...	...	...
J05385870-6916150 ^a	05 38 58.70	-69 16 15.1	172253	10.58	0.62	13.02	1.05	0.53	9.1	67.1	3	...	...	...
J05390011-6648059	05 39 00.12	-66 48 05.9	...	8.14	0.61	...	...	...	25.9	99.2	3	K0	5	HD 269951
J05390427-6913311 ^a	05 39 04.27	-69 13 31.1	172468	9.07	0.57	11.33	0.93	0.50	-21.8	86.4	3	G5	5	HD 269931
J05390594-6916267 ^a	05 39 05.95	-69 16 26.7	...	10.78	0.31	12.14	0.39	...	251.8	97.8	1	B7I	30	Sk-69 250
J05390812-6819067	05 39 08.12	-68 19 06.7	172623	11.16	0.38	12.78	0.57	0.37	9.3	70.0	3	...	...	...
J05391675-6645198	05 39 16.76	-66 45 19.9	...	10.67	0.41	...	...	...	34.5	100.6	3	...	...	...
J05392024-6906263 ^a	05 39 20.24	-69 06 26.3	173123	11.76	0.22	12.83	0.29	0.23	244.9	54.0	1	B8Ia	29	[P93] 2123
J05392242-7002578	05 39 22.43	-70 02 57.8	...	10.95	0.40	...	...	...	8.6	78.9	3	...	...	...
J05392404-6917015 ^a	05 39 24.04	-69 17 01.5	173253	11.03	0.29	12.34	0.52	0.35	2.9	62.1	3	...	...	...
J05392574-6911360 ^a	05 39 25.75	-69 11 36.0	...	8.34	0.65	...	...	...	30.2	139.8	3	K0	5	HD 269938
J05392930-6957108	05 39 29.30	-69 57 10.9	...	9.20	0.37	...	...	...	21.0	167.5	3	G5	5	HD 269934
J05393244-6705111	05 39 32.44	-67 05 11.1	...	10.82	0.34	...	...	...	18.1	113.9	3	...	...	...
J05393252-7004460	05 39 32.52	-70 04 46.0	...	9.22	0.50	...	...	...	31.5	160.2	3	K0	5	HD 269933
J05393563-6702302	05 39 35.64	-67 02 30.2	...	7.24	0.26	8.33	0.48	...	7.7	77.7	3	F5V	17	HD 38305

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05393714-6755540	05 39 37.14	-67 55 54.0	...	11.08	0.36	...	...	...	-2.5	123.5	3	...	...	...
J05393751-6721573	05 39 37.51	-67 21 57.4	...	12.41	0.01	12.28	-0.06	...	324.5	21.8	1	B3:I	30	HD 269962
J05394308-6655144	05 39 43.08	-66 55 14.5	...	10.80	0.46	...	...	...	13.7	96.4	3	...	...	...
J05394852-7030582	05 39 48.52	-70 30 58.2	...	10.92	0.23	...	...	...	1.0	69.7	3	G0	5	HD 269935
J05395266-6718278	05 39 52.66	-67 18 27.8	...	11.19	0.37	...	...	...	-21.2	70.9	3	...	...	...
J05395334-6816116	05 39 53.35	-68 16 11.6	174017	10.84	0.40	12.69	0.76	0.42	9.2	82.1	3	...	...	...
J05395552-6655217	05 39 55.53	-66 55 21.7	...	7.58	0.56	...	...	...	-3.2	147.8	3	G0	5	HD 269976
J05400096-7157096	05 40 00.96	-71 57 09.6	...	9.60	0.25	...	...	...	26.4	43.8	3	F8	5	HD 271488
J05400109-6934527	05 40 01.09	-69 34 52.7	...	11.51	0.28	...	...	...	243.8	92.9	1	A:I	9	[FBM2009] 76
J05400598-6937077	05 40 05.98	-69 37 07.8	...	10.12	0.69	...	...	...	73.8	76.0	3	...	...	...
J05401085-6825320	05 40 10.85	-68 25 32.1	...	7.62	0.65	...	...	...	32.4	92.8	3	K0	5	HD 269968
J05401217-6940049	05 40 12.18	-69 40 05.0	...	8.02	0.57	9.95	0.88	...	266.5	27.3	1	G0	21	HD 269953
J05401796-6928067 ^a	05 40 17.97	-69 28 06.8	...	11.51	0.15	...	...	...	235.5	92.7	1	A0Ib	37	SOI 653
J05401935-6941226	05 40 19.36	-69 41 22.7	...	10.41	0.53	...	...	...	218.7	40.3	1	...	...	...
J05402058-6737333	05 40 20.59	-67 37 33.4	...	9.14	0.61	...	...	...	79.2	81.8	3	K	5	HD 269986
J05402124-6918417 ^a	05 40 21.25	-69 18 41.8	174640	11.22	0.23	12.49	0.44	0.30	253.3	85.2	1	...	...	...
J05402535-6914362 ^a	05 40 25.36	-69 14 36.3	...	10.35	0.27	11.42	0.36	...	233.8	61.4	1	A5Ia	30	Sk-69 262
J05402591-6951303	05 40 25.92	-69 51 30.3	...	7.36	0.61	9.76	1.01	...	29.4	152.0	3	G5	5	HD 269955
J05402939-6734112	05 40 29.39	-67 34 11.3	...	11.27	0.30	...	...	...	9.7	85.0	3	...	...	...
J05403286-6814538	05 40 32.86	-68 14 53.8	...	6.68	0.87	...	...	...	42.9	71.9	3	K5	5	HD 269984
J05403347-6740006	05 40 33.47	-67 40 00.7	...	10.11	0.68	...	...	...	-1.4	100.7	3	...	...	...
J05403429-6933245	05 40 34.29	-69 33 24.6	...	11.01	0.18	11.67	0.18	...	253.3	126.8	1	B7I	30	Sk-69 264
J05403595-6803529	05 40 35.96	-68 03 52.9	...	11.06	0.35	...	...	...	15.5	80.5	3	G	5	HD 269989
J05403692-6919142 ^a	05 40 36.93	-69 19 14.2	...	11.24	0.18	12.03	0.24	...	263.5	69.8	1	B6I	30	Sk-69 263
J05403699-6712108	05 40 37.00	-67 12 10.8	...	9.54	0.66	...	...	...	63.7	120.3	3	...	...	...
J05404019-6943139	05 40 40.20	-69 43 13.9	...	10.66	0.25	11.76	0.45	...	22.2	90.4	3	G0	5	HD 269964
J05404247-6704005	05 40 42.48	-67 04 00.5	...	11.94	0.05	12.10	0.03	...	288.4	107.2	1	B6I	30	HD 270003
J05404474-6856281 ^a	05 40 44.74	-68 56 28.1	...	6.55	0.71	...	...	...	23.9	80.9	3	K0	5	HD 269975
J05404507-6938427	05 40 45.08	-69 38 42.8	...	11.32	0.34	...	...	...	-18.7	70.7	3	F7V	9	[FBM2009] 132
J05404874-6929166	05 40 48.74	-69 29 16.7	...	8.18	0.71	...	...	...	32.6	82.8	3	K0III	18	HD 269972
J05404880-6916513	05 40 48.80	-69 16 51.3	...	11.56	0.10	11.88	0.12	...	265.7	37.9	1	B3I	30	Sk-69 265
J05404977-6851547	05 40 49.78	-68 51 54.8	175324	10.80	0.34	12.28	0.57	0.33	4.3	94.2	3	...	...	...
J05405010-7117166	05 40 50.10	-71 17 16.7	...	9.22	0.63	...	...	...	48.1	112.1	3	...	...	...
J05405324-6823214	05 40 53.24	-68 23 21.5	...	9.52	0.42	...	...	...	33.7	118.0	3	F8	5	HD 269995
J05405332-6707326	05 40 53.32	-67 07 32.7	...	9.77	0.21	...	...	...	33.6	36.7	3	F0	5	HD 270010
J05405613-6903493 ^a	05 40 56.13	-69 03 49.4	175477	11.07	0.32	12.54	0.61	0.35	-2.6	105.2	3	...	...	...
J05405780-6915311	05 40 57.80	-69 15 31.2	...	9.75	0.23	10.79	0.36	...	236.8	55.3	1	A8Ia	30	HD 269982
J05405799-6913537 ^a	05 40 57.99	-69 13 53.7	175529	9.78	0.51	12.10	0.99	0.56	259.6	46.9	1	...	...	...
J05405915-6920354 ^a	05 40 59.16	-69 20 35.4	...	9.72	0.36	11.30	0.64	...	263.1	34.1	1	F6Ia	1	CPD-69 496
J05405950-7007018	05 40 59.51	-70 07 01.8	...	11.25	0.36	...	...	...	-16.9	68.8	3	...	...	...
J05410051-6722055	05 41 00.52	-67 22 05.5	...	9.09	0.61	...	...	...	26.5	159.4	3	K0	5	HD 270009
J05410318-7003414	05 41 03.19	-70 03 41.4	...	10.47	0.75	...	...	...	39.1	71.4	3	...	...	...
J05410330-7126386	05 41 03.31	-71 26 38.6	...	11.09	0.30	...	...	...	8.2	72.3	3	...	...	...
J05410547-6855056 ^a	05 41 05.47	-68 55 05.7	175717	10.04	0.62	12.41	0.94	0.53	27.3	91.0	3	...	...	...
J05410622-7113493	05 41 06.23	-71 13 49.3	...	10.69	0.41	...	...	...	79.2	102.9	3	...	...	...
J05411612-6821119	05 41 16.12	-68 21 12.0	175965	11.24	0.31	12.70	0.55	0.34	26.3	130.3	3	...	...	...
J05411804-6929541	05 41 18.05	-69 29 54.2	176029	12.36	0.07	12.91	0.22	0.15	256.7	20.7	1	...	...	...
J05411924-6824029	05 41 19.24	-68 24 03.0	176065	11.41	0.30	12.80	0.53	0.35	3.5	70.0	3	...	...	...
J05412014-6936229	05 41 20.14	-69 36 23.0	...	11.92	0.06	12.01	0.00	...	264.6	49.6	1	B4I/III	9	Sk-69 271
J05412039-6905073 ^a	05 41 20.40	-69 05 07.3	...	10.89	0.09	11.27	0.14	...	261.6	42.9	1	B2.5Ia	13	HD 269997

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05412074-6934060	05 41 20.74	-69 34 06.1	...	9.39	0.26	...	...	...	27.9	87.7	3	G0	5	HD 269991
J05412170-6944287	05 41 21.70	-69 44 28.8	...	9.18	0.68	...	...	...	65.3	107.6	3	...	...	...
J05412572-6824418	05 41 25.72	-68 24 41.8	176253	9.16	0.63	11.67	1.04	0.53	19.9	126.7	3	...	...	...
J05412768-6948037	05 41 27.69	-69 48 03.7	...	11.04	0.04	11.22	0.05	...	236.6	30.7	1	B2.5Ia	13	HD 269992
J05413010-6919312 ^a	05 41 30.10	-69 19 31.3	...	10.87	0.16	11.81	0.27	...	230.3	56.4	1	F2Ia:	30	HD 269998
J05413732-6855018	05 41 37.33	-68 55 01.9	176535	9.07	0.69	11.71	1.11	0.61	54.0	97.2	3	K7	5	HD 270007
J05414150-6737191	05 41 41.50	-67 37 19.1	...	9.57	0.82	...	...	...	0.1	85.7	3	...	...	...
J05414561-6902168	05 41 45.61	-69 02 16.9	176761	10.18	0.59	12.46	0.88	0.49	94.0	133.2	3	...	...	...
J05415174-6851562	05 41 51.75	-68 51 56.2	176925	11.25	0.22	12.35	0.41	0.26	28.1	74.3	3	...	...	...
J05420016-6912450 ^a	05 42 00.17	-69 12 45.0	...	11.04	0.14	11.84	0.22	...	231.4	91.0	1	A5I	30	Sk-69 281
J05420216-6842417	05 42 02.17	-68 42 41.7	...	6.06	0.64	...	...	...	-2.0	142.5	3	G5III	17	HD 38727
J05420238-6815184	05 42 02.38	-68 15 18.4	...	10.55	0.28	...	...	...	-3.6	102.6	3	F8	5	HD 270024
J05420508-6737462	05 42 05.09	-67 37 46.3	...	9.56	0.44	...	...	...	-0.7	100.4	3	K0	5	HD 270032
J05420932-6827311	05 42 09.33	-68 27 31.1	177375	10.43	0.34	11.89	0.54	0.31	271.9	36.2	1	F8I:	32	GV 439
J05420987-6907341 ^a	05 42 09.88	-69 07 34.1	177388	10.17	0.79	13.16	1.22	0.64	22.2	108.8	3	...	...	...
J05421155-6901392 ^a	05 42 11.55	-69 01 39.3	...	11.94	0.05	12.06	0.00	...	271.5	28.4	1	B1.5	30	HD 270019
J05421173-7037321	05 42 11.73	-70 37 32.1	...	9.70	0.82	...	...	...	1.2	89.6	3	...	...	...
J05421223-6728010	05 42 12.24	-67 28 01.1	...	8.25	0.90	...	...	...	33.1	65.8	3	K5	5	HD 270035
J05421384-6841349	05 42 13.84	-68 41 34.9	...	7.76	0.72	...	...	...	20.3	63.9	3	M0	5	HD 270023
J05421458-6830462	05 42 14.59	-68 30 46.2	177511	11.24	0.35	12.81	0.50	0.33	282.1	32.1	1	...	...	...
J05421537-6913207 ^a	05 42 15.37	-69 13 20.7	177531	12.37	0.06	12.54	0.02	0.06	259.3	29.7	1	B2III	3	...
J05421724-7128271	05 42 17.25	-71 28 27.2	...	11.11	0.36	...	...	...	-20.7	70.2	3	...	...	...
J05422917-6719419	05 42 29.18	-67 19 41.9	...	9.72	0.25	10.84	0.40	...	261.7	39.3	1	F6Ia	1	HD 270050
J05423403-7037034	05 42 34.04	-70 37 03.5	...	9.73	0.71	...	...	...	22.9	110.1	3	...	...	...
J05424114-7011257	05 42 41.14	-70 11 25.8	...	10.53	0.28	...	...	...	1.0	87.2	3	G0	5	HD 270017
J05424262-6824574	05 42 42.63	-68 24 57.4	...	6.97	0.70	...	...	...	25.0	81.4	3	K0	5	HD 270036
J05424355-6813534	05 42 43.55	-68 13 53.5	...	12.00	0.15	12.80	0.17	...	260.5	85.4	1	B8:I	30	Sk-68 152
J05424862-6833431	05 42 48.63	-68 33 43.2	...	11.89	0.02	12.23	0.06	...	265.9	70.6	1	B8Ia	30	HD 270039
J05425097-7000146	05 42 50.98	-70 00 14.6	...	7.67	0.74	...	...	...	20.8	84.8	3	K0	5	HD 270021
J05425866-6805341	05 42 58.67	-68 05 34.1	...	7.30	0.86	...	...	...	12.9	76.7	3	M0	5	HD 270053
J05430087-6747311	05 43 00.88	-67 47 31.1	...	7.93	0.80	...	...	...	9.4	71.8	3	M0	5	HD 270055
J05430445-6850172	05 43 04.46	-68 50 17.3	178596	10.25	0.79	13.34	1.25	0.67	66.8	73.2	3	...	...	...
J05431419-6847593	05 43 14.19	-68 47 59.4	178775	9.01	0.62	11.49	0.99	0.53	44.1	83.4	3	K2	5	HD 270049
J05431537-7124092	05 43 15.38	-71 24 09.3	...	9.73	0.89	...	...	...	44.3	75.5	3	...	...	...
J05431643-6716251	05 43 16.43	-67 16 25.1	...	10.46	0.48	...	...	...	13.2	95.7	3	...	...	...
J05431849-6900041	05 43 18.49	-69 00 04.2	178867	11.02	0.21	12.17	0.44	0.28	14.2	82.3	3	F8	5	HD 270047
J05432036-7138152	05 43 20.37	-71 38 15.2	...	9.75	0.63	...	...	...	29.9	162.7	3	...	...	...
J05432617-7035096	05 43 26.17	-70 35 09.7	...	11.21	0.32	...	...	...	-3.0	63.1	3	...	...	...
J05433242-6818518	05 43 32.43	-68 18 51.8	179109	11.91	0.18	12.77	0.19	0.15	235.5	57.6	1	A4Ib	37	GV 453
J05433451-7112270	05 43 34.52	-71 12 27.1	...	10.12	0.58	...	...	...	24.9	138.8	3	...	...	...
J05433643-7004142	05 43 36.43	-70 04 14.3	...	8.89	0.14	...	...	...	7.7	35.3	3	F0V	17	HD 39015
J05435011-6958120	05 43 50.11	-69 58 12.0	...	7.13	0.89	...	...	...	36.1	80.3	3	K5	5	HD 270045
J05435169-7117038	05 43 51.70	-71 17 03.8	...	11.48	0.26	...	...	...	12.1	75.3	3	...	...	...
J05435243-7103383	05 43 52.43	-71 03 38.3	...	6.69	0.63	...	...	...	7.5	88.2	3	K0III:	17	HD 39133
J05440175-6738003	05 44 01.76	-67 38 00.3	...	11.84	0.20	12.81	0.29	...	265.2	53.5	1	F2I:	32	GV 455
J05440231-7035168	05 44 02.31	-70 35 16.8	...	10.20	0.63	...	...	...	70.2	80.0	3	...	...	...
J05440613-6736513	05 44 06.13	-67 36 51.4	...	10.00	0.53	...	...	...	79.9	105.9	3	...	...	...
J05440848-6811132	05 44 08.48	-68 11 13.3	...	9.76	0.29	...	...	...	6.1	86.8	3	F2	5	HD 270073
J05440928-6759226	05 44 09.28	-67 59 22.6	...	11.13	0.34	...	...	...	13.8	76.1	3	...	...	...
J05440932-6730110	05 44 09.32	-67 30 11.0	...	9.31	0.62	11.79	1.03	...	-2.1	138.0	3	K0	5	HD 270083

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05441054-7134098	05 44 10.55	-71 34 09.8	...	9.99	0.21	...	...	...	27.0	104.2	3	G0	5	HD 270026
J05441525-6808053	05 44 15.25	-68 08 05.4	...	8.49	0.74	...	...	...	32.2	74.0	3	M0	5	HD 270076
J05441839-6857044	05 44 18.40	-68 57 04.4	...	9.60	0.70	...	...	...	38.5	68.9	3	...	...	...
J05442064-6804218	05 44 20.64	-68 04 21.9	...	10.81	0.38	...	...	...	11.6	83.5	3	...	...	...
J05442619-7023213	05 44 26.19	-70 23 21.4	...	11.25	0.36	...	...	...	51.8	57.0	3	...	...	...
J05442886-7029189	05 44 28.86	-70 29 19.0	...	10.12	0.70	...	...	...	-0.4	79.0	3	...	...	...
J05443964-6753216	05 44 39.65	-67 53 21.6	...	10.95	0.38	...	...	...	10.7	79.7	3	...	...	...
J05444042-6826508	05 44 40.43	-68 26 50.9	...	10.71	0.36	...	...	...	19.6	40.1	3	G5	5	HD 270080
J05444241-7138221	05 44 42.42	-71 38 22.1	...	11.61	0.26	...	...	...	55.8	78.0	3	...	...	...
J05445058-6729405	05 44 50.58	-67 29 40.6	...	9.84	0.49	11.83	1.05	...	312.6	44.0	1	G2:1a	4	HD 270100
J05450139-6852113	05 45 01.39	-68 52 11.4	...	10.87	0.33	...	...	...	-3.5	126.1	3	...	...	...
J05450224-6826210	05 45 02.24	-68 26 21.0	...	9.99	0.58	...	...	...	-0.5	51.8	3	K7	5	HD 270089
J05450677-6749563	05 45 06.77	-67 49 56.4	...	10.46	0.66	...	...	...	78.1	82.0	3	...	...	...
J05450702-6843587	05 45 07.02	-68 43 58.7	...	10.87	0.54	...	...	...	34.8	87.2	3	...	...	...
J05450748-7134465	05 45 07.48	-71 34 46.5	...	11.26	0.24	...	...	...	6.0	80.5	3	K0	5	HD 270051
J05451346-6756217	05 45 13.47	-67 56 21.7	...	11.41	0.27	...	...	...	2.6	98.9	3	...	...	...
J05451414-6743255	05 45 14.14	-67 43 25.6	...	10.72	0.57	...	...	...	135.2	73.6	3	...	...	...
J05452484-6757215	05 45 24.84	-67 57 21.6	...	10.82	0.51	...	...	...	-3.5	122.8	3	...	...	...
J05452528-7116421	05 45 25.29	-71 16 42.1	...	10.32	0.62	...	...	...	37.4	78.5	3	...	...	...
J05452549-6729493	05 45 25.50	-67 29 49.4	...	10.31	0.46	...	...	...	20.9	113.4	3	...	...	...
J05452720-6726204	05 45 27.21	-67 26 20.4	...	10.03	0.63	...	...	...	91.8	132.7	3	...	...	...
J05452783-6801176	05 45 27.84	-68 01 17.6	...	9.57	0.05	...	...	...	22.9	18.5	3	A2	5	HD 270109
J05452835-6741195	05 45 28.36	-67 41 19.6	...	11.95	0.13	12.82	0.18	...	269.8	80.3	1	A3Ib	37	GV 465
J05452938-6827249	05 45 29.39	-68 27 25.0	...	10.63	0.25	...	...	...	-5.8	33.0	3	G0	5	HD 270101
J05453122-7107199	05 45 31.22	-71 07 20.0	...	11.69	0.22	...	...	...	98.6	44.5	3	...	...	...
J05453526-6759158	05 45 35.27	-67 59 15.9	...	10.22	0.39	...	...	...	5.6	100.2	3	...	...	...
J05454314-6751521	05 45 43.14	-67 51 52.1	...	6.43	0.69	...	...	...	15.3	82.2	3	K0III	1	HD 270119
J05455039-6746443	05 45 50.39	-67 46 44.4	...	11.37	0.21	...	...	...	5.3	39.9	3	A3Ib	37	SOI 284
J05455175-7050255	05 45 51.75	-70 50 25.5	...	10.93	0.39	...	...	...	73.9	30.0	3	...	...	...
J05455898-6804492	05 45 58.98	-68 04 49.2	...	10.20	0.33	...	...	...	-22.1	83.7	3	G5	5	HD 270120
J05455985-7113422	05 45 59.85	-71 13 42.3	...	12.05	0.08	12.64	0.16	...	226.4	64.3	1	A3I	30	HD 270069
J05461814-6725519	05 46 18.14	-67 25 52.0	...	11.21	0.32	...	...	...	13.0	68.2	3	...	...	...
J05462368-6742142	05 46 23.68	-67 42 14.3	...	10.72	0.47	...	...	...	-7.5	127.7	3	...	...	...
J05462616-6803274	05 46 26.16	-68 03 27.4	...	9.91	0.33	...	...	...	13.9	97.4	3	G5	5	HD 270128
J05463840-7009152	05 46 38.40	-70 09 15.2	...	10.28	0.75	...	...	...	26.7	55.5	3	...	...	...
J05464140-7046061 ^a	05 46 41.41	-70 46 06.1	...	11.12	0.25	...	...	...	16.0	35.5	3	F8	5	HD 270088
J05464377-7043532 ^b	05 46 43.77	-70 43 53.2	...	10.34	0.73	...	...	...	30.4	32.5	3	...	...	...
J05465001-7110168	05 46 50.01	-71 10 16.8	...	10.67	0.39	...	...	...	9.6	61.5	3	F8	5	HD 270085
J05465471-6726323	05 46 54.72	-67 26 32.4	...	10.90	0.40	...	...	...	73.4	66.0	3	...	...	...
J05465970-7005266	05 46 59.71	-70 05 26.7	...	9.61	0.72	...	...	...	-0.5	77.6	3	...	...	...
J05470036-6802553	05 47 00.36	-68 02 55.4	...	8.56	0.63	...	...	...	-16.8	102.3	3	K0	5	HD 270141
J05470426-6959421	05 47 04.26	-69 59 42.2	...	10.65	0.59	...	...	...	119.7	54.2	3	...	...	...
J05472325-7118421	05 47 23.26	-71 18 42.1	...	11.17	0.36	...	...	...	20.3	106.2	3	...	...	...
J05472370-6753415	05 47 23.70	-67 53 41.5	...	10.90	0.25	...	...	...	39.0	67.7	3	...	...	...
J05474257-6837380	05 47 42.57	-68 37 38.0	...	8.92	0.85	...	...	...	72.8	28.4	3	...	...	...
J05475103-7116074	05 47 51.03	-71 16 07.4	...	9.27	0.77	...	...	...	63.3	103.5	3	...	...	...
J05475182-6923494	05 47 51.83	-69 23 49.5	...	8.56	0.71	...	...	...	33.4	91.3	3	K2	5	HD 270137
J05480237-7042195 ^b	05 48 02.37	-70 42 19.5	...	9.19	0.70	...	...	...	-37.0	105.5	3	...	...	...
J05480752-7057454 ^a	05 48 07.52	-70 57 45.5	...	8.33	0.22	...	...	...	7.6	55.6	3	F2/3IV	17	HD 39767
J05481007-6736259	05 48 10.08	-67 36 25.9	...	10.34	0.32	...	...	...	-4.6	145.8	3	F2	5	HD 270177

Table 1—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^c (km s $^{-1}$)	Category ^d	Class	Ref. ^e	Comments
J05481149-6925502	05 48 11.49	-69 25 50.3	...	9.42	0.71	...	...	...	28.3	30.5	3	...	...	...
J05482304-6932160	05 48 23.05	-69 32 16.1	...	10.32	0.31	...	...	...	7.7	36.6	3	G0	5	HD 270144
J05482358-6742177	05 48 23.59	-67 42 17.7	...	9.98	0.68	...	...	...	-19.2	74.7	3	...	...	...
J05482925-7032363 ^a	05 48 29.25	-70 32 36.4	...	9.75	0.57	...	...	...	45.2	63.9	3	K0	5	HD 270129
J05484305-7012528	05 48 43.05	-70 12 52.9	...	7.62	0.71	...	...	...	4.2	72.5	3	K2	5	HD 270140
J05484964-7003579	05 48 49.65	-70 03 57.9	...	12.26	0.01	12.24	-0.10	...	336.9	16.7	1	O6.5Iaf	24	HD 270145
J05485437-6918526	05 48 54.38	-69 18 52.7	...	9.16	0.63	...	...	...	5.1	99.1	3	G5	5	HD 270162
J05485679-7013316	05 48 56.80	-70 13 31.7	...	11.05	0.30	...	...	...	9.9	69.2	3	...	...	...
J05490134-6954276	05 49 01.35	-69 54 27.6	...	10.12	0.59	...	...	...	-31.8	124.6	3	...	...	...
J05490285-7002302	05 49 02.85	-70 02 30.2	...	11.52	0.12	12.02	0.10	...	248.1	34.8	1	B2Ia	13	HD 270151
J05490470-6942384	05 49 04.71	-69 42 38.4	...	8.98	0.73	...	...	...	34.5	66.5	3	K2	5	HD 270159
J05490854-6746598	05 49 08.54	-67 46 59.8	...	11.01	0.34	...	...	...	39.1	78.6	3	...	...	...
J05492413-6918378	05 49 24.13	-69 18 37.9	...	7.78	0.73	...	...	...	29.7	74.9	3	M0	5	HD 270173
J05492775-7047582 ^a	05 49 27.75	-70 47 58.2	...	10.97	0.32	...	...	...	20.8	74.9	3	...	...	...
J05493303-6912003	05 49 33.04	-69 12 00.3	...	10.93	0.28	...	...	...	31.4	63.5	3	G5	5	HD 270179
J05493574-6749068	05 49 35.74	-67 49 06.8	...	10.34	0.49	...	...	...	49.7	93.7	3	...	...	...
J05494603-7001228	05 49 46.04	-70 01 22.8	...	7.84	0.73	10.68	1.21	...	5.5	72.0	3	K0	5	HD 270167
J05495044-7042035 ^a	05 49 50.44	-70 42 03.5	...	8.36	0.67	...	...	...	-12.8	110.6	3	K5	5	HD 270155
J05495638-7106007 ^a	05 49 56.38	-71 06 00.7	...	10.45	0.57	...	...	...	25.5	68.9	3	...	...	...
J05495707-6910009	05 49 57.08	-69 10 01.0	...	11.58	0.28	...	...	...	9.1	40.3	3	...	...	...
J05495921-6941060	05 49 59.22	-69 41 06.0	...	5.41	0.83	...	...	...	17.3	66.6	3	K3III	17	HD 39980
J05495973-6932029	05 49 59.73	-69 32 02.9	...	9.46	0.64	...	...	...	-12.3	127.7	3	G5	5	HD 270184
J05500025-7023478	05 50 00.26	-70 23 47.8	...	10.99	0.28	...	...	...	24.3	91.8	3	F8	5	HD 270164
J05501123-6934296	05 50 11.24	-69 34 29.7	...	7.77	0.68	...	...	...	25.9	93.2	3	K0III	1	HD 270186
J05501547-7020396	05 50 15.47	-70 20 39.7	...	9.84	0.67	...	...	...	-2.3	126.0	3	...	...	...
J05501812-7107025 ^a	05 50 18.13	-71 07 02.5	...	9.95	0.34	...	...	...	3.9	102.0	3	G0	5	HD 270156
J05501868-7051442 ^a	05 50 18.69	-70 51 44.2	...	11.47	0.27	...	...	...	15.1	47.1	3	...	...	...
J05502406-7006223	05 50 24.06	-70 06 22.4	...	11.64	0.24	...	...	...	-47.0	58.5	3	...	...	...
J05503187-7017407	05 50 31.87	-70 17 40.8	...	10.68	0.34	...	...	...	7.2	83.1	3	G0	5	HD 270178
J05511899-6941047	05 51 18.99	-69 41 04.7	...	11.14	0.40	...	...	...	-2.4	94.0	3	...	...	...
J05512119-7040070 ^a	05 51 21.19	-70 40 07.0	...	8.70	0.48	...	...	...	9.8	79.0	3	G5	5	HD 270189
J05512542-7024498	05 51 25.43	-70 24 49.9	...	11.31	0.34	...	...	...	20.3	87.2	3	...	...	...
J05514271-7012414	05 51 42.72	-70 12 41.4	...	10.37	0.71	...	...	...	9.8	69.1	3	...	...	...
J05515047-6932554	05 51 50.48	-69 32 55.5	...	10.58	0.39	...	...	...	128.1	69.7	3	F5	5	HD 270226
J05515420-6954298	05 51 54.20	-69 54 29.8	...	11.33	0.25	...	...	...	24.7	80.5	3	...	...	...
J05520210-7025322	05 52 02.11	-70 25 32.3	...	11.24	0.36	...	...	...	32.6	118.2	3	...	...	...
J05522337-7035325 ^a	05 52 23.38	-70 35 32.5	...	8.90	0.78	...	...	...	-16.4	55.0	3	...	...	...
J05525250-6930356	05 52 52.51	-69 30 35.6	...	9.48	0.66	...	...	...	9.4	53.9	3	...	...	...
J05525602-6914083	05 52 56.03	-69 14 08.3	...	7.52	0.89	...	...	...	58.0	78.1	3	M0	5	HD 270259
J05530181-6959465	05 53 01.81	-69 59 46.6	...	10.04	0.86	...	...	...	231.7	52.0	1	...	...	...
J05532535-6954137	05 53 25.35	-69 54 13.7	...	10.18	0.69	...	...	...	22.2	78.9	3	...	...	...
J05534754-7002000	05 53 47.55	-70 02 00.1	...	11.24	0.35	...	...	...	24.8	43.5	3	...	...	...
J05534847-6958391	05 53 48.47	-69 58 39.2	...	11.39	0.29	...	...	...	18.9	32.6	3	...	...	...
J05535083-7009101	05 53 50.84	-70 09 10.2	...	9.77	0.69	...	...	...	57.3	103.8	3	...	...	...
J05535110-7015524	05 53 51.10	-70 15 52.4	...	10.81	0.28	...	...	...	17.4	89.6	3	G5	5	HD 270252
J05535372-6914239	05 53 53.72	-69 14 24.0	...	5.57	0.91	8.92	1.50	...	-9.2	77.6	3	K2/3III	17	HD 40597
J05544008-7007448	05 54 40.08	-70 07 44.8	...	9.28	0.68	...	...	...	13.1	68.2	3	K0	5	HD 270275

*If there is a M2002 designation, the photometry is from Massey 2002. If there is not, the photometry is from the same source of the spectral type unless otherwise noted.

^aThese stars were imaged twice and their results were averaged.

^bReference for $B - V$ colors and V magnitudes = Oestreich et al. 1997

^cTondry & Davis 1979 r parameter.

^dCategory: 1 = LMC supergiant; 2 = possible LMC supergiant; 3 = foreground dwarf

^eReferences for spectral classifications. 1 = Ardeberg et al. 1972; 2 = Bohannon & Walborn 1989; 3 = Bohm-Vitense et al. 1985; 4 = Brunet et al. 1973; 5 = Cannon 1925; 6 = Catchpole et al. 1977; 7 = Cowley et al. 1984; 8 = Evans et al. 2006; 9 = Fariña et al. 2009; 10 = Feast 1974; 11 = Fehrenbach et al. 1977; 12 = Fitzpatrick 1988; 13 = Fitzpatrick 1991; 14 = Foellmi et al. 2003; 15 = Gochermann et al. 1989; 16 = Gray & Garrison 1989; 17 = Houk & Cowley 1975; 18 = Humphreys 1974; 19 = Humphreys et al. 1991; 20 = Jaxon et al. 2001; 21 = Keenan & McNeil 1989; 22 = Levesque et al. 2006; 23 = MacConnell & Bidelman 1976; 24 = Massa et al. 2003; 25 = Massey & Olsen 2003; 26 = Massey et al. 2000; 27 = Melnick 1985; 28 = Moffat & Seggewiss 1986; 29 = Parker 1993; 30 = Rousseau et al. 1978; 31 = Sanduleak 1970; 32 = Sanduleak 1972; 33 = Sanduleak & Philip 1968; 34 = Shore & Sanduleak 1984; 35 = Stahl et al. 1985; 36 = Stahl et al. 1990; 37 = Stock et al. 1976; 38 = Thompson et al. 1982; 39 = Walborn 1977; 40 = Walborn & Blades 1997.

Table 2. Properties of Observed RSG Candidates*

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^{d} (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J04434290-6746555	04 43 42.90	-67 46 55.5	...	9.86	1.03	...	...	...	263.5	51.5	1	...	...	...
J04455346-6733102	04 45 53.47	-67 33 10.3	...	9.82	1.11	...	...	...	279.3	52.5	1	...	...	...
J04464044-6711098	04 46 40.45	-67 11 09.8	...	9.62	1.10	...	...	...	270.9	47.5	1	B1Ia+	6	HD 270754
J04480007-6849112	04 48 00.07	-68 49 11.3	3380	9.85	1.14	14.11	1.02	0.93	277.2	44.4	1	...	...	...
J04480741-6922320	04 48 07.41	-69 22 32.1	3533	8.21	1.06	12.30	1.59	0.92	122.7	77.0	3	...	...	SP77 23-4
J04481009-6945517	04 48 10.09	-69 45 51.8	3572	9.92	0.99	13.63	1.53	0.81	285.1	55.5	1	...	...	...
J04481981-6948502	04 48 19.81	-69 48 50.2	3739	10.19	0.96	13.93	1.63	0.86	241.3	56.0	1	...	...	...
J04482407-7104012	04 48 24.08	-71 04 01.3	...	9.84	1.01	...	...	...	400.6	46.6	1	...	...	CPD-71 285
J04483920-6844326	04 48 39.20	-68 44 32.7	4120	9.66	1.03	13.83	1.61	0.95	266.3	50.5	1	...	...	...
J04490818-6906324	04 49 08.18	-69 06 32.5	4860	9.57	1.06	13.58	1.49	0.88	262.3	47.1	1	...	...	...
J04492676-6845059	04 49 26.77	-68 45 06.0	5429	8.12	1.29	13.30	1.94	1.18	270.0	39.8	1	...	...	SP77 22-10
J04494680-6923138	04 49 46.81	-69 23 13.8	6106	9.16	1.21	14.15	1.91	1.19	261.1	48.9	1	...	...	...
J04494968-6955336	04 49 49.68	-69 55 33.6	6218	8.98	1.11	13.54	1.69	1.02	238.3	45.7	1	...	...	RM 1-7
J04500384-6940236	04 50 03.85	-69 40 23.7	...	5.43	1.04	...	...	...	-13.9	67.8	3	M0	3	HD 268676
J04500765-7005236	04 50 07.66	-70 05 23.7	6976	9.61	1.13	14.35	1.76	1.11	241.4	46.1	1	...	...	...
J04500969-7004101	04 50 09.70	-70 04 10.2	7057	10.27	0.94	13.89	1.56	0.83	315.6	50.5	1	...	...	...
J04501005-6909419	04 50 10.05	-69 09 42.0	7071	9.45	1.26	14.61	1.95	1.23	276.2	44.4	1	...	...	...
J04502235-6856108	04 50 22.35	-68 56 10.9	7616	9.49	1.11	13.92	1.66	1.05	272.2	46.7	1	...	...	...
J04503588-6909264	04 50 35.89	-69 09 26.4	8255	9.95	1.25	14.67	1.35	0.96	271.8	49.6	1	...	...	...
J04503768-6934584	04 50 37.69	-69 34 58.4	8351	10.20	1.24	15.48	1.44	1.09	287.1	50.4	1	...	...	...
J04505868-6914027 ^b	04 50 58.69	-69 14 02.8	9392	8.36	1.08	12.88	1.95	1.07	263.3	43.5	1	...	...	SP77 31-5
J04510536-6958333	04 51 05.37	-69 58 33.4	9706	9.98	1.06	14.23	1.69	0.90	242.4	51.3	1	...	...	...
J04510944-6956146	04 51 09.45	-69 56 14.6	9896	10.14	1.02	14.03	1.73	0.87	234.2	54.0	1	...	...	...
J04511318-6857400	04 51 13.18	-68 57 40.1	...	9.98	1.33	...	...	...	262.1	18.4	1	...	...	...
J04512113-6856516	04 51 21.14	-68 56 51.6	10432	9.09	1.20	13.99	1.96	1.10	275.7	46.9	1	...	...	...
J04512736-6849199	04 51 27.37	-68 49 19.9	10734	10.11	0.97	13.80	1.39	0.87	262.3	45.1	1	...	...	...
J04513099-6914518	04 51 31.00	-69 14 51.8	...	8.24	1.19	13.55	1.94	1.23	254.8	35.3	1	...	...	...
J04513350-7042402	04 51 33.50	-70 42 40.3	11008	9.93	1.07	13.88	1.82	0.84	254.4	51.0	1	...	...	...
J04513470-6924462	04 51 34.70	-69 24 46.3	11059	9.58	1.20	14.59	1.90	1.19	256.1	49.9	1	...	...	...
J04513589-6932333	04 51 35.89	-69 32 33.3	11118	8.86	1.08	13.03	1.80	0.99	252.5	51.5	1	...	...	SP77 31-7
J04515437-6839204 ^a	04 51 54.38	-68 39 20.5	12036	9.91	1.08	14.13	1.68	0.93	268.9	37.2	1	...	...	...
J04522777-6643580	04 52 27.77	-66 43 58.0	...	9.50	1.05	...	...	...	280.2	50.2	1	...	...	...
J04523016-6939416	04 52 30.17	-69 39 41.6	13833	9.63	1.13	14.09	1.62	0.98	226.0	54.0	1	...	...	...
J04523565-7040427	04 52 35.66	-70 40 42.7	14125	8.59	1.11	12.95	1.20	0.94	262.6	45.2	1	...	...	...
J04523702-6946136	04 52 37.03	-69 46 13.6	14191	9.10	0.99	13.08	1.87	0.93	257.9	47.8	1	...	...	SP77 31-10
J04524033-6933533	04 52 40.34	-69 33 53.4	14369	9.68	1.09	14.00	1.84	1.02	259.5	50.2	1	...	...	...
J04525078-7046303	04 52 50.79	-70 46 30.3	14939	8.94	1.02	12.88	1.88	0.91	257.0	47.9	1	...	...	SP77 32-2
J04525131-6959156	04 52 51.31	-69 59 15.6	14973	9.99	1.12	14.21	1.66	0.94	255.7	51.0	1	...	...	...
J04525615-7013287	04 52 56.16	-70 13 28.7	...	9.52	1.10	...	...	...	259.8	48.2	1	...	...	...
J04525644-6925460	04 52 56.45	-69 25 46.1	15268	8.80	1.27	14.46	1.66	1.33	267.1	21.3	1	...	...	...
J04525647-6920342	04 52 56.48	-69 20 34.3	15269	9.63	1.08	13.50	1.54	0.92	272.3	48.9	1	...	...	...
J04531457-6932266	04 53 14.58	-69 32 26.6	16323	9.09	1.19	13.96	1.90	1.10	272.6	45.9	1	...	...	...
J04532345-7008116	04 53 23.45	-70 08 11.7	16849	10.16	1.13	14.43	1.79	0.95	242.4	53.8	1	...	...	...
J04533038-6944358	04 53 30.39	-69 44 35.9	17238	9.20	1.05	13.37	1.66	0.95	241.0	51.2	1	...	...	...
J04533656-6648318	04 53 36.57	-66 48 31.9	...	9.02	1.07	...	...	...	280.9	49.0	1	...	...	SP77 29-1
J04534989-6934331	04 53 49.90	-69 34 33.1	18379	9.76	1.08	13.94	1.70	0.98	255.9	52.9	1	...	...	...
J04535025-6648516	04 53 50.26	-66 48 51.6	...	9.88	1.06	...	...	...	262.0	44.9	1	...	...	...
J04540818-7006241	04 54 08.18	-70 06 24.1	19465	8.56	1.09	12.80	2.00	1.00	260.3	46.3	1	...	...	SP77 31-14
J04540821-6839492 ^a	04 54 08.21	-68 39 49.3	19466	10.08	1.24	15.34	1.54	1.20	259.9	39.3	1	...	...	...
J04540879-6832314 ^a	04 54 08.80	-68 32 31.4	19496	8.65	1.12	12.90	1.98	1.06	273.8	41.0	1	...	...	SP77 30-5

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^{d} (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J045411290-6824279 ^a	04 54 12.90	-68 24 27.9	19753	10.19	1.21	15.25	1.57	1.17	267.8	33.7	1	...	...	...
J04541386-6708122	04 54 13.86	-67 08 12.3	19825	10.20	1.02	13.95	1.38	0.80	295.9	44.9	1	...	...	...
J04541753-6712001	04 54 17.54	-67 12 00.1	20060	8.88	1.24	14.70	1.67	1.27	289.6	28.3	1	...	...	...
J04542171-6845241 ^a	04 54 21.71	-68 45 24.1	20355	9.66	0.95	13.48	1.77	0.91	273.0	48.2	1	...	...	SP77 30-6
J04542275-7048207	04 54 22.75	-70 48 20.7	20427	9.64	1.15	14.22	1.36	0.90	243.2	48.1	1	...	...	...
J04543809-6650338	04 54 38.10	-66 50 33.8	...	9.54	1.17	...	...	...	288.2	47.5	1	...	...	...
J04543882-6857363	04 54 38.82	-68 57 36.4	21494	9.65	1.09	13.34	1.17	0.70	263.8	46.2	1	...	...	...
J04544025-6917340	04 54 40.25	-69 17 34.0	21591	9.84	1.16	14.36	1.48	0.99	250.3	55.0	1	...	...	...
J04544683-6707046	04 54 46.84	-67 07 04.7	22017	9.83	1.03	13.85	1.71	0.93	294.0	45.7	1	...	...	...
J04544724-6947166	04 54 47.25	-69 47 16.7	22045	10.08	1.07	14.22	1.72	0.97	252.4	54.4	1	...	...	...
J04544923-6931302	04 54 49.24	-69 31 30.3	22182	10.02	1.03	13.97	1.60	0.86	245.6	53.9	1	...	...	...
J04545798-6945153	04 54 57.98	-69 45 15.4	22754	9.89	1.21	14.97	1.56	1.13	269.1	39.6	1	...	...	...
J04545858-6652380	04 54 58.58	-66 52 38.0	...	10.21	1.12	...	...	...	295.5	45.1	1	...	...	...
J04545989-6934437	04 54 59.90	-69 34 43.8	22870	9.42	1.19	14.41	1.74	1.12	233.0	48.3	1	...	...	...
J04550559-6935248	04 55 05.59	-69 35 24.9	...	9.79	1.08	...	...	...	244.9	56.1	1	...	...	...
J04552165-6947167	04 55 21.65	-69 47 16.8	...	7.62	1.31	14.45	2.07	1.57	253.5	18.2	1	...	...	...
J04553197-6650379	04 55 31.98	-66 50 38.0	...	7.66	1.02	12.48 ^c	1.91 ^c	...	295.6	36.5	1	...	...	...
J04553293-6703405	04 55 32.94	-67 03 40.5	...	10.09	1.30	...	...	...	305.8	36.8	1	...	...	...
J04553832-6708080	04 55 38.33	-67 08 08.1	25565	9.68	1.05	13.73	1.76	0.90	292.0	46.1	1	...	...	SP77 29-9
J04554224-6843171	04 55 42.24	-68 43 17.2	...	10.22	1.28	...	...	...	230.9	17.3	1	...	...	...
J04554634-6957553	04 55 46.35	-69 57 55.3	26138	9.92	1.01	14.02	1.72	0.94	256.6	43.2	1	...	...	...
J04555272-7052060	04 55 52.72	-70 52 06.0	26565	9.48	1.14	14.30	1.93	1.06	233.8	48.7	1	...	...	...
J04555566-6838560 ^a	04 55 55.66	-68 38 56.0	26765	9.80	1.17	14.33	1.48	1.01	289.9	46.5	1	...	...	...
J04555927-6953051	04 55 59.27	-69 53 05.1	27017	10.12	0.97	13.85	1.73	0.88	260.4	51.3	1	...	...	...
J04560060-7010232	04 56 00.61	-70 10 23.2	27120	9.02	1.19	14.11	1.82	1.16	254.1	52.1	1	...	...	...
J04560217-6945146	04 56 02.18	-69 45 14.7	27221	9.69	1.09	13.91	1.83	0.94	256.3	50.3	1	...	...	...
J04560523-6708007	04 56 05.24	-67 08 00.8	27439	9.32	1.01	13.43	1.79	0.94	293.9	45.6	1	...	...	...
J04560615-6701088	04 56 06.15	-67 01 08.8	...	9.36	1.13	...	...	...	288.3	47.9	1	...	...	...
J04561574-6857373	04 56 15.75	-68 57 37.4	28190	10.02	1.22	15.07	1.18	1.11	224.1	44.4	1	...	...	...
J04562085-6930069	04 56 20.86	-69 30 07.0	28584	10.25	0.99	14.03	1.22	0.86	251.9	55.1	1	...	...	...
J04562363-6942110	04 56 23.64	-69 42 11.1	28780	8.45	1.06	12.76	1.83	0.96	263.2	45.9	1	...	...	SP77 31-24
J04562827-6940369 ^b	04 56 28.28	-69 40 37.0	29153	8.43	1.08	12.85	1.79	0.98	269.4	43.4	1	...	...	SP77 31-25
J04563006-6656235	04 56 30.07	-66 56 23.6	...	10.05	1.05	...	...	...	296.1	45.4	1	...	...	...
J04563284-6827137 ^a	04 56 32.84	-68 27 13.8	29559	9.44	1.08	13.97	1.54	1.02	275.0	45.7	1	...	...	...
J04563785-6925305	04 56 37.85	-69 25 30.5	29965	9.62	1.21	14.14	1.20	0.93	249.2	53.5	1	...	...	...
J04563939-7126556	04 56 39.40	-71 26 55.7	...	9.71	1.24	...	...	...	237.9	30.4	1	...	...	...
J04563966-6650084	04 56 39.67	-66 50 08.5	...	9.68	0.95	...	...	...	287.5	47.2	1	...	...	...
J04564849-6939549 ^b	04 56 48.50	-69 39 54.9	30861	7.77	1.10	12.25	1.92	1.09	255.5	44.5	1	M2	12	SP77 31-26
J04565216-7003014	04 56 52.17	-70 03 01.5	31129	9.77	1.05	13.79	1.75	0.92	252.6	52.7	1	...	...	...
J04565399-6933402	04 56 53.99	-69 33 40.2	31276	9.80	1.03	13.56	1.05	0.79	246.9	50.6	1	...	...	...
J04565646-6924053	04 56 56.46	-69 24 05.4	31495	8.85	1.10	13.38	1.63	1.01	250.0	43.7	1	...	...	SP77 31-26a
J04565840-7017449	04 56 58.40	-70 17 45.0	31650	9.62	1.12	13.93	1.63	0.93	241.3	49.5	1	...	...	...
J04565899-6848074 ^a	04 56 58.99	-68 48 07.4	31695	9.17	1.12	13.65	1.75	0.99	288.4	41.2	1	...	...	...
J04572625-6853385	04 57 26.26	-68 53 38.5	33962	9.05	1.08	13.25	1.75	0.94	252.8	48.7	1	...	...	...
J04572801-6830460 ^a	04 57 28.01	-68 30 46.0	34099	10.05	1.09	14.14	1.58	0.90	247.0	41.7	1	...	...	...
J04573451-6745233	04 57 34.52	-67 45 23.4	34602	9.89	1.06	13.85	1.68	0.92	272.4	47.0	1	...	...	...
J04574307-6956136	04 57 43.07	-69 56 13.6	35313	10.05	0.94	13.73	1.67	0.85	227.8	52.9	1	...	...	...
J04575230-7014003	04 57 52.31	-70 14 00.4	36019	9.08	1.06	13.32	1.88	0.96	266.6	46.8	1	...	...	...
J04580012-6855520	04 58 00.12	-68 55 52.1	36633	9.84	1.29	16.02	1.34	1.39	229.1	17.8	1	...	...	...
J04581103-6651180	04 58 11.04	-66 51 18.1	...	9.93	1.09	...	...	...	298.3	45.5	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^{d} (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J04584111-7011366	04 58 41.11	-70 11 36.6	39949	10.05	0.93	13.68	1.67	0.82	251.1	50.5	1	...	...	...
J04585639-7113137	04 58 56.39	-71 13 13.8	...	8.48	1.09	12.78 ^c	1.88 ^c	...	245.3	48.2	1	...	...	SP77 32-10
J04585863-6749144	04 58 58.63	-67 49 14.4	41295	10.02	0.99	13.83	1.66	0.88	298.8	47.1	1	...	...	...
J04591629-6903185	04 59 16.29	-69 03 18.6	...	10.00	1.23	...	...	...	241.2	18.1	1	...	...	...
J04591827-7023548	04 59 18.27	-70 23 54.8	42757	10.24	1.09	13.99	1.69	0.87	235.1	53.7	1	...	...	...
J04592530-6744128	04 59 25.30	-67 44 12.9	43208	9.77	1.12	14.29	1.74	1.08	299.4	46.2	1	...	...	...
J04592823-7159142	04 59 28.23	-71 59 14.2	...	...	1.11	...	...	...	238.6	51.4	1	...	...	...
J04593388-6846242	04 59 33.88	-68 46 24.2	43754	8.88	1.03	12.90	1.96	0.93	287.2	46.5	1	...	...	SP77 30-15
J04593827-6757121	04 59 38.27	-67 57 12.2	44080	10.20	0.99	14.16	1.77	0.85	281.7	31.1	1	...	...	...
J04595456-6811236	04 59 54.57	-68 11 23.7	45214	10.16	1.03	14.05	1.67	0.89	282.6	52.7	1	...	...	...
J04595731-6748133	04 59 57.32	-67 48 13.4	45410	8.87	1.13	13.12	0.89	0.85	303.1	32.9	1	...	...	SP77 30-18
J05000690-7003520	05 00 06.91	-70 03 52.0	46056	10.17	1.21	15.00	1.23	1.00	257.4	49.1	1	...	...	...
J05001027-7027038	05 00 10.28	-70 27 03.9	...	5.81	1.06	...	...	...	-40.6	80.0	3	K7	3	HD 268940
J05001220-7002504	05 00 12.20	-70 02 50.4	46392	9.68	1.07	13.71	1.67	0.91	247.5	54.3	1	...	...	RM 1-107
J05001230-6812143	05 00 12.30	-68 12 14.4	46389	9.64	1.06	13.60	1.75	0.91	295.3	46.2	1	...	...	...
J05002888-6723068	05 00 28.88	-67 23 06.8	47479	9.59	1.04	13.56	1.78	0.90	292.1	47.8	1	...	...	...
J05003265-7105181	05 00 32.65	-71 05 18.1	47734	10.22	1.12	14.56	1.75	0.93	234.4	44.1	1	...	...	...
J05003501-6632425	05 00 35.01	-66 32 42.6	...	9.95	1.24	...	...	...	284.2	21.8	1	...	...	...
J05003601-7019408	05 00 36.01	-70 19 40.8	47965	9.40	0.99	13.28	1.82	0.90	254.7	50.9	1	...	...	SP77 32-11
J05003845-6830524	05 00 38.45	-68 30 52.5	48117	9.92	1.15	14.74	0.60	0.90	290.8	33.2	1	...	...	...
J05003992-7022582 ^a	05 00 39.93	-70 22 58.2	48230	8.95	1.15	13.34	1.85	1.00	242.5	47.1	1	...	...	SP77 32-12
J05004129-6723141	05 00 41.29	-67 23 14.1	48328	8.20	0.96	11.70	1.43	0.76	74.7	68.1	3	...	...	...
J05004662-6904040 ^a	05 00 46.63	-69 04 04.1	48690	9.65	1.26	15.04	1.54	1.16	244.9	25.8	1	...	...	...
J05005475-6816290	05 00 54.75	-68 16 29.0	49262	9.33	1.08	13.49	1.82	0.96	245.0	52.3	1	...	...	SP77 30-23
J05005801-6813494	05 00 58.01	-68 13 49.5	49492	9.14	1.29	14.21	2.00	1.11	277.4	49.7	1	...	...	...
J05005881-6805092	05 00 58.82	-68 05 09.2	49548	9.85	1.12	14.16	1.73	1.01	281.4	50.9	1	...	...	...
J05013568-6835358	05 01 35.68	-68 35 35.8	52078	8.93	1.14	13.64	1.87	1.06	300.3	42.8	1	...	...	RM 1-126
J05014670-6906540	05 01 46.70	-69 06 54.1	52800	9.55	1.23	14.94	1.73	1.17	247.4	34.2	1	...	...	...
J05020436-6833059	05 02 04.37	-68 33 06.0	54013	9.78	1.07	14.10	1.79	1.00	292.8	47.3	1	...	...	...
J05020565-6708169	05 02 05.65	-67 08 16.9	54109	10.08	1.24	15.67	1.53	1.20	269.4	26.6	1	...	...	...
J05021687-6805241 ^a	05 02 16.87	-68 05 24.1	54837	10.17	1.08	14.18	1.47	0.91	272.4	49.5	1	...	...	...
J05022269-6846078	05 02 22.70	-68 46 07.8	55237	9.64	1.03	13.70	1.73	0.91	261.0	51.8	1	...	...	RM 1-132
J05022553-6908009	05 02 25.53	-69 08 01.0	55444	9.30	1.16	14.10	1.93	1.05	253.6	49.3	1	...	...	...
J05022813-6858598 ^a	05 02 28.14	-68 58 59.8	55611	10.22	1.24	14.85	1.31	1.00	243.5	52.4	1	...	...	...
J05024927-6622210	05 02 49.28	-66 22 21.1	...	8.81	1.03	12.97 ^c	1.83 ^c	...	302.1	41.6	1	...	...	SP77 28-17
J05025417-6608323	05 02 54.17	-66 08 32.3	...	10.16	1.00	...	...	...	297.4	46.3	1	...	...	...
J05025775-6724525	05 02 57.75	-67 24 52.5	57678	10.17	1.29	15.71	1.67	1.14	285.6	19.4	1	M4S	12	WOH G 143
J05030232-6847203 ^a	05 03 02.33	-68 47 20.3	57989	10.14	0.97	13.64	1.10	0.74	274.0	49.4	1	...	...	...
J05032008-6854026	05 03 20.08	-68 54 02.7	59119	9.12	1.12	13.56	1.76	1.00	277.3	47.2	1	...	...	RM 1-140
J05032192-6629492	05 03 21.93	-66 29 49.3	...	10.15	1.04	...	...	...	298.8	46.8	1	...	...	...
J05033083-7025346	05 03 30.84	-70 25 34.7	59790	9.77	1.06	13.89	1.35	0.89	235.5	46.3	1	...	...	...
J05033306-6628450	05 03 33.06	-66 28 45.0	...	9.96	1.03	...	...	...	110.0	67.2	3	...	...	...
J05033384-7040398	05 03 33.85	-70 40 39.8	59993	9.94	1.24	15.15	1.74	1.19	225.6	41.2	1	...	...	...
J05033732-6617561	05 03 37.33	-66 17 56.2	...	10.24	0.98	...	...	...	304.1	50.4	1	...	...	...
J05040502-7022461 ^b	05 04 05.02	-70 22 46.1	62090	8.11	1.05	12.50	1.96	1.00	243.1	47.1	1	M1I	10	SP77 40-2
J05040743-6626429	05 04 07.43	-66 26 43.0	...	9.63	1.02	...	...	...	301.0	46.3	1	...	...	...
J05040897-6850213	05 04 08.97	-68 50 21.4	62293	10.01	1.04	14.19	1.73	0.97	256.1	53.4	1	...	...	...
J05040946-6908012	05 04 09.47	-69 08 01.3	62317	10.00	1.34	15.97	1.38	1.18	250.6	17.4	1	...	...	...
J05042369-6750211	05 04 23.69	-67 50 21.2	...	10.09	1.16	...	...	...	267.2	44.3	1	...	...	...
J05042497-6833113	05 04 24.98	-68 33 11.3	63160	9.61	1.08	13.90	1.92	0.94	289.6	49.4	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05042791-6749056	05 04 27.92	-67 49 05.7	...	9.01	1.11	...	...	...	294.3	45.4	1	...	...	...
J05043276-6620505	05 04 32.77	-66 20 50.5	...	8.96	1.14	...	...	...	291.3	37.4	1	...	...	...
J05043378-6806235	05 04 33.78	-68 06 23.5	...	9.99	1.03	...	...	...	274.4	51.4	1	...	...	SP77 30-31
J05044043-6751180	05 04 40.44	-67 51 18.0	...	9.68	1.13	...	...	...	294.7	44.9	1	...	...	...
J05044174-7042371 ^b	05 04 41.74	-70 42 37.2	64048	8.03	1.15	13.28	1.89	1.19	245.1	33.5	1	M2.5I	10	SP77 40-4
J05045123-6905062	05 04 51.24	-69 05 06.2	64544	9.44	1.26	14.72	1.66	1.23	268.9	45.6	1	...	...	...
J05045166-6902283	05 04 51.66	-69 02 28.3	64565	9.95	1.06	13.94	1.49	0.88	249.2	54.2	1	...	...	...
J05045392-6801585	05 04 53.93	-68 01 58.6	...	10.19	0.94	...	...	...	320.9	43.7	1	...	...	...
J05045412-7033184 ^b	05 04 54.13	-70 33 18.5	64706	8.40	1.09	12.79	1.63	0.98	234.1	46.8	1	M0/II	13	SP77 40-6
J05045839-7037384	05 04 58.39	-70 37 38.5	64951	9.04	1.12	13.29	1.80	0.97	242.7	51.1	1	...	...	...
J05050303-6918308	05 05 03.04	-69 18 30.8	65204	8.27	1.10	12.87	1.95	1.05	285.9	51.2	1	...	...	...
J05051321-7042216	05 05 13.21	-70 42 21.7	65709	8.92	1.01	13.01	1.80	0.92	242.5	48.3	1	...	...	...
J05051429-6618531	05 05 14.29	-66 18 53.1	...	9.32	1.07	...	...	...	296.6	45.0	1	...	...	...
J05052587-6819572	05 05 25.88	-68 19 57.2	...	10.28	1.04	...	...	...	234.9	49.3	1	...	...	...
J05053128-6912404	05 05 31.29	-69 12 40.4	66668	10.27	1.20	15.35	1.51	0.89	255.5	44.9	1	...	...	...
J05053934-7038446	05 05 39.35	-70 38 44.6	67092	9.37	0.98	13.27	1.54	0.91	240.9	48.0	1	...	...	...
J05054793-6829120	05 05 47.94	-68 29 12.1	...	10.01	1.07	...	...	...	283.6	48.4	1	...	...	...
J05055667-7035238 ^b	05 05 56.68	-70 35 23.9	67982	8.11	1.12	12.76	1.93	1.09	237.7	42.8	1	M2.5I	10	...
J05055950-7048112 ^b	05 05 59.51	-70 48 11.2	68125	8.31	1.17	13.43	1.83	1.20	232.0	48.5	1	M4I	10	...
J05060145-7034082	05 06 01.45	-70 34 08.2	68229	10.04	1.04	13.96	1.66	0.91	243.5	46.2	1	...	...	...
J05060631-6724561	05 06 06.32	-67 24 56.1	...	10.24	1.20	...	...	...	288.8	32.6	1	...	...	...
J05060929-6906563	05 06 09.29	-69 06 56.3	68615	10.23	1.19	14.88	1.57	0.99	233.0	50.3	1	...	...	...
J05063691-6816455	05 06 36.92	-68 16 45.5	...	10.27	1.12	...	...	...	284.4	52.4	1	...	...	...
J05063943-6821307	05 06 39.43	-68 21 30.7	...	8.87	1.11	...	...	...	287.2	43.8	1	...	...	...
J05065284-6841123	05 06 52.85	-68 41 12.4	70754	10.30	1.18	14.57	0.68	0.59	246.5	53.3	1	...	...	...
J05070859-6830205	05 07 08.60	-68 30 20.6	71510	9.87	1.11	14.22	1.54	0.93	290.5	46.7	1	...	...	...
J05073072-6847347	05 07 30.72	-68 47 34.8	72641	10.23	1.07	14.30	1.56	0.92	254.3	54.2	1	...	...	...
J05073653-6907326	05 07 36.53	-69 07 32.6	72935	10.28	1.21	15.69	0.19	1.18	247.7	16.9	1	...	...	...
J05074127-6755438	05 07 41.27	-67 55 43.9	...	9.07	1.17	...	...	...	295.8	38.8	1	M2S	12	WOH S 167
J05074673-6829313	05 07 46.73	-68 29 31.3	...	9.40	1.05	...	...	...	288.0	46.7	1	...	...	...
J05082836-6916513	05 08 28.37	-69 16 51.4	75666	10.21	1.34	15.91	1.58	1.11	233.8	17.7	1	...	...	...
J05083180-6853372	05 08 31.81	-68 53 37.3	75886	9.88	1.10	14.28	1.46	0.94	243.5	54.5	1	...	...	...
J05084415-6901596	05 08 44.16	-69 01 59.7	76683	10.18	0.98	13.96	1.63	0.81	319.0	46.1	1	...	...	...
J05091155-7210368	05 09 11.56	-72 10 36.9	...	9.89	1.14	...	...	...	229.8	33.1	1	...	...	...
J05091175-7123095	05 09 11.76	-71 23 09.5	...	9.97	1.08	...	...	...	241.9	51.0	1	...	...	...
J05091452-6829489	05 09 14.53	-68 29 49.0	...	10.22	1.61	...	...	...	283.2	49.5	1	...	...	...
J05092360-6910437	05 09 23.60	-69 10 43.7	79356	9.89	1.11	14.16	1.41	0.91	246.3	53.0	1	...	...	...
J05092423-6847238	05 09 24.24	-68 47 23.8	79397	9.87	1.22	14.74	1.53	1.07	249.4	48.4	1	...	...	...
J05092686-7010199	05 09 26.86	-70 10 20.0	79579	9.85	1.06	13.99	1.75	0.94	255.5	48.0	1	...	...	...
J05094920-6912449	05 09 49.21	-69 12 44.9	80984	10.26	1.26	16.07	1.64	1.20	235.7	26.2	1	...	...	...
J05100840-7029524	05 10 08.41	-70 29 52.4	82219	9.97	0.99	13.71	1.60	0.83	238.9	57.1	1	...	...	...
J05101374-6927566	05 10 13.75	-69 27 56.6	82598	10.09	0.99	14.03	1.97	0.96	240.8	53.0	1	...	...	...
J05101547-7010397	05 10 15.47	-70 10 39.7	...	5.72	1.10	10.01	1.59	...	151.9	65.9	3	K4III	1	HD 269157
J05103282-6707380	05 10 32.82	-67 07 38.0	...	9.56	1.10	...	...	...	304.1	46.9	1	...	...	...
J05103532-7118451	05 10 35.32	-71 18 45.2	...	9.47	1.13	...	...	...	231.4	52.0	1	...	...	...
J05104449-6947509	05 10 44.49	-69 47 50.9	84731	9.65	1.17	14.75	1.65	1.09	248.1	37.8	1	...	...	...
J05105573-7119021	05 10 55.74	-71 19 02.2	...	9.00	1.08	...	...	...	238.1	48.1	1	...	...	...
J05110427-6918467	05 11 04.28	-69 18 46.8	86109	9.21	1.02	13.25	1.51	0.90	248.6	47.4	1	...	...	...
J05111106-7037045	05 11 11.06	-70 37 04.5	86512	10.22	1.16	14.85	1.54	0.96	218.3	38.6	1	...	...	...
J05111185-6703592	05 11 11.86	-67 03 59.2	...	9.79	1.11	...	...	...	310.9	49.5	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05112421-6740520	05 11 24.21	-67 40 52.1	...	10.11	1.18	...	...	...	286.3	53.2	1	...	...	...
J05113830-7200570	05 11 38.31	-72 00 57.1	...	10.09	1.01	...	...	...	232.2	52.4	1	...	...	...
J05113937-7113199	05 11 39.38	-71 13 20.0	...	8.85	1.06	...	...	...	230.5	47.6	1	...	...	...
J05121391-6634305	05 12 13.92	-66 34 30.6	...	9.88	1.17	...	...	...	287.9	39.9	1	...	...	...
J05122446-7035421	05 12 24.47	-70 35 42.2	90419	10.03	1.29	14.95	1.99	1.09	242.7	50.1	1	...	...	...
J05122461-6857207	05 12 24.61	-68 57 20.7	90431	9.97	1.32	16.92	3.04	1.81	276.0	19.8	1	...	...	...
J05122818-6715556	05 12 28.19	-67 15 55.6	...	8.96	1.07	...	...	...	297.9	45.3	1	...	...	...
J05123041-6742509	05 12 30.42	-67 42 50.9	...	9.99	1.39	...	...	...	270.9	30.0	1	C	2	LMC-BM 18-10
J05124636-7034298	05 12 46.36	-70 34 29.9	91486	10.29	1.26	15.87	0.60	1.16	230.0	17.9	1	...	...	...
J05125968-6718003	05 12 59.68	-67 18 00.4	...	9.09	1.11	...	...	...	297.3	44.6	1	...	...	...
J05130492-6713314	05 13 04.92	-67 13 31.5	...	9.04	1.05	...	...	...	307.2	31.2	1	M1e	16	LHA 120-S 21
J05130709-6718242	05 13 07.10	-67 18 24.2	...	9.17	1.06	...	...	...	304.2	43.8	1	...	...	...
J05130816-6708417	05 13 08.17	-67 08 41.7	...	8.78	1.09	13.05	1.83	...	307.7	44.5	1	...	...	SP77 37-27
J05131678-6725031	05 13 16.79	-67 25 03.1	...	8.89	1.19	...	...	...	303.9	44.1	1	...	...	...
J05133131-6627360	05 13 31.32	-66 27 36.0	...	9.85	1.00	...	...	...	297.3	47.9	1	...	...	...
J05133222-6737429 ^a	05 13 32.23	-67 37 42.9	...	9.66	1.23	...	...	...	289.3	48.2	1	...	...	...
J05133288-6921425	05 13 32.89	-69 21 42.5	93745	8.08	1.09	12.59	1.94	1.03	290.7	40.4	1	...	...	...
J05134389-6722481	05 13 43.90	-67 22 48.1	...	8.98	1.03	13.05	2.00	...	298.0	44.5	1	...	...	SP77 37-29
J05144972-6727197	05 14 49.72	-67 27 19.7	...	7.42	1.22	12.65	2.18	...	297.4	35.7	1	M3I	15	SP77 37-35
J05153729-6707123	05 15 37.30	-67 07 12.3	...	8.27	1.15	12.53	1.77	...	307.1	43.5	1	...	...	SP77 37-36
J05161312-6615578	05 16 13.12	-66 15 57.9	...	9.86	1.17	...	...	...	286.9	31.7	1	M3S	12	WOH S 210
J05162088-6643516	05 16 20.89	-66 43 51.6	...	9.92	1.28	...	...	...	282.0	23.1	1	M5S	12	WOH G 251
J05163894-6748375	05 16 38.95	-67 48 37.5	...	10.24	1.06	...	...	...	259.1	53.7	1	...	...	...
J05165790-6934281	05 16 57.91	-69 34 28.2	105486	9.04	1.04	13.08	1.33	0.90	266.8	36.9	1	...	...	...
J05173365-6909236	05 17 33.66	-69 09 23.6	107679	8.87	1.18	13.41	1.85	0.99	249.6	49.6	1	...	...	...
J05173480-6901158	05 17 34.81	-69 01 15.8	107750	10.05	1.17	15.14	1.48	1.14	278.7	54.7	1	...	...	...
J05174343-6934151	05 17 43.44	-69 34 15.2	108275	9.13	1.06	13.06	0.41	0.86	259.2	37.1	1	...	...	...
J05175106-6824346	05 17 51.06	-68 24 34.6	...	9.96	0.99	...	...	...	295.7	46.3	1	...	...	...
J05175634-6940253 ^b	05 17 56.34	-69 40 25.4	109106	8.57	1.13	12.96	1.85	1.02	245.2	45.0	1	M2.5I	10	SP77 47-2
J05175743-6808412	05 17 57.44	-68 08 41.3	...	8.52	1.11	...	...	...	283.1	47.6	1	...	...	...
J05180432-6935092	05 18 04.32	-69 35 09.3	109619	9.16	1.04	13.07	1.83	0.90	255.8	40.3	1	...	...	...
J05181396-6856100	05 18 13.97	-68 56 10.0	110228	9.68	1.15	14.36	1.58	1.01	269.8	42.0	1	...	...	...
J05181682-6931563	05 18 16.83	-69 31 56.3	110423	9.64	1.11	14.03	1.22	0.98	260.5	25.2	1	...	...	...
J05182041-6633176	05 18 20.42	-66 33 17.7	...	9.82	1.21	...	...	...	207.6	46.3	1	...	...	...
J05182891-6945234	05 18 28.91	-69 45 23.5	111164	9.22	1.02	13.12	1.72	0.89	269.5	45.3	1	...	...	...
J05183040-6936218	05 18 30.41	-69 36 21.9	111266	9.27	1.02	13.08	1.47	0.87	248.8	42.3	1	...	...	...
J05183070-6806276	05 18 30.71	-68 06 27.6	...	8.22	1.07	12.68	1.81	...	288.6	45.1	1	M0	14	SP77 38-19
J05183934-6941430	05 18 39.35	-69 41 43.1	111791	9.55	1.05	13.66	1.66	0.90	262.7	44.2	1	...	...	...
J05185836-6941452	05 18 58.36	-69 41 45.2	113032	8.77	1.08	13.10	1.75	0.95	257.2	42.4	1	...	...	RM 1-287
J05191245-7119100	05 19 12.45	-71 19 10.1	...	10.12	1.21	...	...	...	212.6	37.4	1	...	...	...
J05191690-6751486	05 19 16.90	-67 51 48.7	...	5.33	1.13	9.77	1.69	...	132.9	84.2	3	K5III	1	HD 269344
J05193112-6853413	05 19 31.12	-68 53 41.3	115315	8.93	1.22	13.81	1.54	1.06	284.2	50.3	1	...	...	...
J05193283-6752441	05 19 32.84	-67 52 44.1	...	6.01	1.08	10.13	1.64	...	44.6	71.1	3	K5III	1	HD 269352
J05194426-6802261	05 19 44.26	-68 02 26.2	...	9.02	1.18	...	...	...	294.8	46.6	1	M1	14	[RM85] 230
J05195025-6926496	05 19 50.26	-69 26 49.6	116692	9.12	1.13	13.31	1.12	0.90	272.7	34.6	1	...	...	...
J05195326-6804037	05 19 53.26	-68 04 03.8	...	7.27	1.17	12.31 ^c	2.07 ^c	...	284.0	44.0	1	M1	14	SP77 46-2
J05201774-6820376	05 20 17.75	-68 20 37.7	...	10.00	1.40	...	...	...	290.1	22.9	1	...	...	...
J05204690-6938566	05 20 46.91	-69 38 56.6	120918	9.76	1.01	13.57	1.59	0.84	284.4	45.8	1	...	...	...
J05205789-6745295	05 20 57.89	-67 45 29.5	...	9.60	1.05	...	...	...	294.9	46.7	1	...	...	...
J05210134-7058459	05 21 01.34	-70 58 46.0	121936	9.93	1.02	13.77	1.41	0.81	209.5	58.9	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^{d} (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05211647-6808538	05 21 16.48	-68 08 53.8	122991	10.25	1.13	14.63	1.76	0.96	285.9	41.3	1	K5	14	[RM85] 201
J05211986-6855440	05 21 19.87	-68 55 44.0	123231	9.91	1.17	14.64	1.89	1.05	278.2	48.4	1	...	...	...
J05212350-6816333	05 21 23.51	-68 16 33.4	123476	10.19	1.07	14.19	1.67	0.89	274.9	50.2	1	...	...	...
J05212379-6857363	05 21 23.80	-68 57 36.4	123498	10.28	1.32	14.68	1.69	1.01	283.6	49.2	1	...	...	...
J05214366-7146116	05 21 43.67	-71 46 11.7	...	10.17	0.99	...	...	...	241.3	52.1	1	...	...	...
J05214598-6856400	05 21 45.98	-68 56 40.0	125014	9.85	1.16	14.27	1.68	0.96	275.3	50.0	1	...	...	...
J05214729-6812312	05 21 47.30	-68 12 31.2	125109	10.25	0.97	13.97	1.73	0.84	269.6	29.4	1	...	...	...
J05214834-6757515	05 21 48.35	-67 57 51.6	...	8.37	1.24	13.31 ^c	1.91 ^c	...	298.9	39.0	1	...	...	SP77 46-5a
J05215599-6712455	05 21 56.00	-67 12 45.6	...	8.20	1.20	...	...	...	321.4	43.0	1	...	...	...
J05220398-6717101	05 22 03.98	-67 17 10.1	...	9.70	0.99	...	...	...	265.3	50.5	1	...	...	...
J05220568-6735425	05 22 05.69	-67 35 42.6	...	10.26	1.16	...	...	...	303.4	47.8	1	...	...	...
J05223109-6934051 ^b	05 22 31.10	-69 34 05.2	128130	8.65	1.14	13.07	1.86	1.00	253.6	35.8	1	M2I	13	...
J05223394-6754323	05 22 33.94	-67 54 32.4	...	9.61	1.12	...	...	...	300.5	44.4	1	...	...	...
J05224365-6937206	05 22 43.66	-69 37 20.7	129037	9.39	1.10	13.59	1.79	0.92	290.7	39.6	1	...	...	...
J05225891-6713465	05 22 58.92	-67 13 46.5	...	9.94	0.99	...	...	...	294.7	50.4	1	...	...	...
J05230392-6704254	05 23 03.93	-67 04 25.5	...	8.67	1.07	13.03	1.73	...	302.7	43.8	1	...	...	SP77 45-3
J05231206-7004436	05 23 12.07	-70 04 43.7	...	10.04	1.30	...	...	...	222.5	17.1	1	...	...	...
J05232947-6942498	05 23 29.48	-69 42 49.9	...	9.42	0.97	...	...	...	276.6	49.5	1	...	...	...
J05233177-6952307	05 23 31.78	-69 52 30.7	...	9.85	1.17	...	...	...	263.7	26.0	1	...	...	...
J05233577-7044553	05 23 35.77	-70 44 55.3	...	9.35	1.00	...	...	...	257.4	46.1	1	...	...	...
J05233761-7004496	05 23 37.61	-70 04 49.7	...	9.40	1.25	...	...	...	258.9	45.9	1	...	...	...
J05234758-6724100	05 23 47.58	-67 24 10.1	...	8.82	1.17	...	...	...	306.7	45.9	1	...	...	...
J05234794-7007348	05 23 47.94	-70 07 34.8	...	9.27	1.14	...	...	...	243.4	47.9	1	...	...	...
J05241700-6824299	05 24 17.01	-68 24 29.9	132530	10.18	1.18	14.76	1.89	1.04	275.9	50.0	1	...	...	...
J05243020-6829071	05 24 30.21	-68 29 07.2	132773	9.96	1.20	15.01	1.80	1.11	277.7	46.2	1	...	...	...
J05244151-6636470	05 24 41.51	-66 36 47.0	...	8.52	1.10	...	...	...	314.3	44.5	1	...	...	...
J05244325-6720022	05 24 43.26	-67 20 02.3	...	10.11	1.07	...	...	...	311.9	47.2	1	...	...	...
J05244341-7000011	05 24 43.42	-70 00 01.2	...	8.82	1.11	...	...	...	243.5	49.5	1	...	...	...
J05244404-6623168	05 24 44.04	-66 23 16.8	...	9.80	0.98	...	...	...	291.0	52.3	1	...	...	...
J05244988-6628464	05 24 49.89	-66 28 46.4	...	8.45	1.42	...	...	...	309.1	19.5	1	...	...	...
J05252581-6623186	05 25 25.82	-66 23 18.6	...	9.23	1.15	...	...	...	308.2	45.1	1	...	...	...
J05253102-6616566	05 25 31.02	-66 16 56.6	...	7.62	1.54	...	...	...	305.4	36.0	1	...	...	...
J05253695-6836552	05 25 36.95	-68 36 55.2	134197	9.10	1.12	13.98	1.76	1.10	273.0	41.2	1	...	...	...
J05254036-7015526	05 25 40.37	-70 15 52.7	...	9.94	1.21	...	...	...	251.9	24.1	1	...	...	...
J05254339-6631134	05 25 43.39	-66 31 13.4	...	9.97	1.15	...	...	...	290.4	46.4	1	...	...	...
J05254378-6628450	05 25 43.78	-66 28 45.1	...	9.67	1.06	...	...	...	313.5	48.6	1	...	...	...
J05254603-6828017	05 25 46.04	-68 28 01.8	134407	9.18	1.06	13.18	1.79	0.93	277.4	47.2	1	...	...	...
J05255493-6637415	05 25 54.93	-66 37 41.6	...	9.18	1.05	...	...	...	306.2	45.5	1	...	...	...
J05255546-6631494	05 25 55.46	-66 31 49.4	...	10.20	1.05	...	...	...	305.1	45.3	1	...	...	...
J05260034-7135488	05 26 00.34	-71 35 48.9	...	7.88	1.21	...	...	...	238.7	38.7	1	em?	7	LHA 120-S 164
J05260853-6839142	05 26 08.53	-68 39 14.2	135051	10.02	1.06	14.22	1.81	0.94	275.4	49.6	1	...	...	...
J05261135-6612111	05 26 11.36	-66 12 11.2	...	7.88	1.50	...	...	...	306.8	36.8	1	M3	12	WOH S 281
J05261582-6622511	05 26 15.83	-66 22 51.2	...	9.98	1.04	...	...	...	285.4	49.8	1	...	...	...
J05262397-6958228	05 26 23.98	-69 58 22.8	...	9.29	1.22	...	...	...	262.1	25.7	1	...	...	...
J05263040-6948033	05 26 30.41	-69 48 03.3	...	9.94	1.13	...	...	...	250.8	54.3	1	...	...	...
J05263981-6824209	05 26 39.81	-68 24 21.0	136246	9.95	0.99	13.82	1.71	0.91	281.3	51.0	1	...	...	...
J05265063-6626350	05 26 50.64	-66 26 35.1	...	9.35	1.02	...	...	...	306.4	44.7	1	...	...	...
J05265854-6700474	05 26 58.54	-67 00 47.5	...	8.75	1.06	...	...	...	254.6	42.9	1	M0	14	[RM85] 461
J05265899-6651205	05 26 58.99	-66 51 20.5	...	8.73	1.12	...	...	...	308.7	44.8	1	...	...	...
J05270448-6959278	05 27 04.48	-69 59 27.9	...	9.45	1.20	...	...	...	261.5	24.5	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05274078-6717503	05 27 40.78	-67 17 50.3	139087	9.32	1.08	13.84	1.48	1.01	298.5	32.4	1	...	...	...
J05274083-6619509	05 27 40.84	-66 19 50.9	...	9.62	1.02	...	...	...	300.7	47.5	1	...	...	...
J05274464-6947514	05 27 44.65	-69 47 51.5	...	9.62	1.08	...	...	...	257.4	45.7	1	...	...	...
J05274504-7132280	05 27 45.05	-71 32 28.0	...	9.08	1.11	...	...	...	232.1	47.0	1	...	...	...
J05274538-6624307	05 27 45.39	-66 24 30.7	...	9.20	1.05	...	...	...	309.6	46.0	1	...	...	...
J05274747-6913205 ^b	05 27 47.48	-69 13 20.5	139413	7.60	1.21	12.68	1.53	1.17	270.2	18.0	1	M3I	13	SP77 47-14
J05275113-6910460	05 27 51.13	-69 10 46.0	139591	8.29	1.16	12.54	1.40	0.96	262.8	43.2	1	M1	13	...
J05280139-6620336	05 28 01.40	-66 20 33.6	...	9.52	1.05	...	...	...	302.0	44.3	1	...	...	...
J05281091-7011124	05 28 10.92	-70 11 12.4	...	10.14	1.32	...	...	...	260.1	30.1	1	...	...	...
J05281283-6856109	05 28 12.83	-68 56 11.0	140644	10.23	1.17	14.56	1.23	0.85	281.2	46.2	1	...	...	...
J05281487-6632461	05 28 14.87	-66 32 46.2	...	8.84	1.12	12.94 ^c	1.87 ^c	...	300.1	27.0	1	M0.5	3	SP77 44-24
J05282092-6903254	05 28 20.92	-69 03 25.4	141055	8.97	1.35	14.05	1.82	1.11	259.4	51.6	1	...	...	...
J05283066-6908528	05 28 30.66	-69 08 52.8	141530	10.15	1.04	13.82	0.83	0.81	274.6	54.9	1	...	...	...
J05284548-6858022 ^b	05 28 45.48	-68 58 02.3	142202	7.55	1.16	12.15	1.65	1.03	275.3	42.3	1	M1.5I	10	W61 17-64
J05284887-6911340	05 28 48.88	-69 11 34.0	142358	9.94	1.24	15.16	1.55	1.04	269.6	21.9	1	...	...	...
J05284952-6647352	05 28 49.52	-66 47 35.3	...	9.41	1.03	...	...	...	304.7	45.6	1	K5	14	[RM85] 447
J05285164-6846445	05 28 51.65	-68 46 44.6	142479	9.10	1.11	13.39	1.82	1.00	280.3	46.5	1	...	...	...
J05285263-6929154	05 28 52.64	-69 29 15.4	...	10.30	1.27	...	...	...	220.8	18.7	1	...	...	...
J05290078-6846335 ^b	05 29 00.78	-68 46 33.5	142907	8.44	1.12	13.05	1.89	1.06	271.3	44.0	1	M2I	10	WOH S 330
J05290123-6853422	05 29 01.23	-68 53 42.2	142927	9.01	1.03	13.38	1.79	1.01	270.1	43.9	1	...	...	...
J05290421-6940150	05 29 04.21	-69 40 15.1	...	10.10	1.14	...	...	...	272.0	46.1	1	...	...	...
J05290839-6912183 ^b	05 29 08.40	-69 12 18.4	143280	8.35	1.11	13.27	1.94	1.13	269.8	41.5	1	M3I	13	...
J05291137-6628091	05 29 11.38	-66 28 09.2	...	9.84	1.03	...	...	...	294.3	47.4	1	...	...	...
J05292099-6847313 ^b	05 29 21.00	-68 47 31.4	143877	7.97	0.98	11.82	1.94	0.95	272.8	45.1	1	K3I	10	W61 17-38
J05292143-6900202 ^b	05 29 21.43	-69 00 20.2	143898	7.75	1.09	11.96	0.55	0.76	284.9	48.0	1	M+B	8	W61 17-70
J05292596-6658355	05 29 25.97	-66 58 35.6	...	8.69	1.07	...	...	...	304.6	44.7	1	...	...	...
J05292687-6704266	05 29 26.88	-67 04 26.7	144172	9.52	0.97	13.28	1.71	0.89	290.8	46.2	1	...	...	...
J05292834-6936250	05 29 28.34	-69 36 25.1	...	9.81	1.00	...	...	...	271.3	49.7	1	...	...	...
J05293011-6630147	05 29 30.12	-66 30 14.7	...	10.24	0.93	...	...	...	299.4	48.2	1	...	...	...
J05293083-6847587	05 29 30.84	-68 47 58.7	144399	9.41	1.02	13.42	1.84	0.93	265.6	48.7	1	...	...	...
J05293147-6939172	05 29 31.47	-69 39 17.2	...	9.84	1.12	...	...	...	278.2	48.2	1	...	...	...
J05293537-6830455	05 29 35.38	-68 30 45.5	144637	8.48	1.23	13.70	2.07	1.17	264.5	47.7	1	...	...	...
J05293745-6652519	05 29 37.45	-66 52 52.0	...	8.89	1.13	...	...	...	303.5	41.9	1	...	...	...
J05294033-6650169	05 29 40.34	-66 50 17.0	...	9.03	1.00	13.10	1.73	...	300.0	44.7	1	...	...	SP77 45-35
J05294221-6857173 ^b	05 29 42.21	-68 57 17.4	145013	6.89	1.04	12.15	1.89	1.16	259.4	44.9	1	M2I	13	W61 17-67
J05294333-6712400	05 29 43.33	-67 12 40.1	145078	9.47	1.02	13.34	1.74	0.90	308.3	43.5	1	...	...	...
J05294393-7028522	05 29 43.93	-70 28 52.2	...	9.25	0.92	...	...	...	255.4	48.0	1	...	...	...
J05294513-6629132	05 29 45.14	-66 29 13.2	...	9.56	1.01	...	...	...	305.3	45.1	1	...	...	...
J05295481-6951494 ^a	05 29 54.81	-69 51 49.5	...	9.73	1.11	...	...	...	259.9	49.5	1	...	...	...
J05295694-6814460	05 29 56.95	-68 14 46.0	...	6.55	0.95	...	...	...	-21.9	78.4	3	K7	3	HD 269636
J05295734-6650274	05 29 57.35	-66 50 27.4	...	8.84	1.11	...	...	...	306.2	44.1	1	...	...	...
J05300119-6956382	05 30 01.20	-69 56 38.2	...	9.79	0.99	...	...	...	239.0	53.3	1	...	...	...
J05300160-7157180	05 30 01.60	-71 57 18.1	...	8.84	1.23	...	...	...	230.6	54.7	1	...	...	...
J05300174-6928377	05 30 01.75	-69 28 37.8	146100	9.24	1.05	13.47	1.54	0.94	286.5	47.5	1	...	...	...
J05300291-6846038	05 30 02.91	-68 46 03.9	146155	8.41	1.12	12.84	1.91	1.02	270.2	45.8	1	...	...	SP77 46-49
J05300459-6847288 ^b	05 30 04.59	-68 47 28.9	146244	8.77	1.04	12.92	1.92	0.98	276.0	46.0	1	K7I	13	SP77 46-50
J05300494-6903597 ^b	05 30 04.94	-69 03 59.7	146266	8.81	1.09	13.15	1.84	1.01	270.6	45.9	1	K7I	13	...
J05300742-7153425	05 30 07.43	-71 53 42.5	...	9.56	1.03	...	...	...	238.3	52.4	1	...	...	...
J05301088-6655119	05 30 10.88	-66 55 11.9	...	8.97	1.03	...	...	...	305.3	44.2	1	...	...	...
J05301201-6957482	05 30 12.02	-69 57 48.3	...	10.05	1.19	...	...	...	256.6	27.9	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05301284-6656013	05 30 12.84	-66 56 01.4	...	8.56	1.07	12.49 ^c	1.88 ^c	...	305.1	42.1	1	...	...	SP77 51-2
J05301995-6722165	05 30 19.96	-67 22 16.5	147152	9.76	1.00	13.55	1.73	0.88	309.5	48.6	1	...	...	...
J05302209-6706315 ^b	05 30 22.09	-67 06 31.6	147257	8.60	1.09	12.76	1.45	0.94	299.1	45.8	1	M1I	13	...
J05302595-7039207	05 30 25.95	-70 39 20.7	...	9.70	1.04	...	...	...	254.3	51.2	1	...	...	...
J05303293-6633222	05 30 32.94	-66 33 22.3	...	9.85	1.12	...	...	...	301.1	44.6	1	...	...	...
J05303399-6713218	05 30 34.00	-67 13 21.8	147956	9.22	0.99	13.04	1.78	0.90	307.7	43.7	1	...	...	...
J05303703-6654472	05 30 37.03	-66 54 47.3	...	9.04	1.06	...	...	...	307.1	44.9	1	...	...	...
J05303848-6900529	05 30 38.49	-69 00 53.0	148217	9.35	1.09	13.58	1.58	0.93	271.9	45.0	1	...	...	...
J05304062-6723079	05 30 40.62	-67 23 07.9	148331	9.02	1.06	13.02	1.84	0.92	305.3	44.3	1	...	...	...
J05304198-6905231 ^b	05 30 41.99	-69 05 23.2	148409	8.76	1.13	13.32	1.81	1.05	269.8	43.1	1	M0/1I	13	...
J05304491-6719548	05 30 44.92	-67 19 54.9	148581	8.87	1.14	13.32	1.79	1.03	301.4	42.9	1	...	...	...
J05304842-6716458	05 30 48.42	-67 16 45.9	148806	8.91	1.07	13.02	1.08	0.87	308.0	44.3	1	K1Ib	5	...
J05305165-7055279	05 30 51.66	-70 55 27.9	...	8.10	1.08	13.10	1.77	...	234.0	45.6	1	...	...	SP77 48-17
J05305451-7033025	05 30 54.52	-70 33 02.6	...	10.23	1.27	...	...	...	247.0	23.6	1	...	...	...
J05305462-6813076	05 30 54.63	-68 13 07.7	149177	9.55	1.22	14.73	1.96	1.14	273.7	43.6	1	M3S	12	WOH S 362
J05305508-6658056	05 30 55.08	-66 58 05.6	...	9.43	1.12	...	...	...	308.0	46.7	1	...	...	...
J05305666-6927040	05 30 56.67	-69 27 04.0	149296	9.52	0.98	13.33	1.73	0.88	270.3	48.9	1	...	...	...
J05310024-6700275	05 31 00.24	-67 00 27.6	...	9.08	1.05	13.11	1.79	...	312.4	44.7	1	...	...	SP77 45-50
J05310463-6900000	05 31 04.63	-69 00 00.0	149799	9.25	1.03	13.29	1.74	0.93	281.1	46.2	1	...	...	...
J05311208-6700590	05 31 12.08	-67 00 59.1	...	8.84	1.06	12.85	1.75	...	299.0	46.2	1	...	...	SP77 45-51
J05311544-6903588 ^b	05 31 15.45	-69 03 58.9	150396	8.22	1.18	13.26	1.81	1.15	270.8	44.2	1	M1/2I	13	...
J05311843-6909282 ^b	05 31 18.43	-69 09 28.2	150577	8.63	1.15	13.27	1.80	1.08	254.8	45.2	1	K5/7I	13	...
J05312426-6841336	05 31 24.27	-68 41 33.6	150910	8.68	1.12	13.01	1.06	0.93	289.1	24.5	1	M0:e	16	[BE74] 334
J05312586-6946374	05 31 25.86	-69 46 37.4	...	10.12	1.01	...	...	...	259.0	52.3	1	...	...	...
J05313082-6953432	05 31 30.82	-69 53 43.2	...	9.54	1.02	...	...	...	253.4	51.8	1	G	4	RM 1-537
J05313311-6706213	05 31 33.11	-67 06 21.3	151353	9.77	0.94	13.50	1.59	0.88	309.0	47.9	1	...	...	...
J05314126-6703516	05 31 41.26	-67 03 51.6	151783	9.85	0.98	13.69	1.66	0.93	305.6	48.1	1	...	...	...
J05314567-6656488	05 31 45.67	-66 56 48.8	...	8.85	1.09	...	...	...	300.0	43.3	1	...	...	...
J05314651-6721166	05 31 46.52	-67 21 16.6	152071	9.29	1.01	13.35	1.72	0.94	312.0	47.2	1	...	...	...
J05314740-6723032 ^b	05 31 47.41	-67 23 03.3	152132	8.59	1.01	13.16	1.90	1.06	288.9	46.7	1	M0I	13	SP77 45-56
J05315299-6650376	05 31 53.00	-66 50 37.7	...	8.25	1.08	...	...	...	302.8	40.5	1	...	...	...
J05315335-6640432	05 31 53.35	-66 40 43.2	...	7.57	1.18	12.31	1.88	...	299.1	40.9	1	M3/4I	15	SP77 52-1
J05315664-7046093	05 31 56.65	-70 46 09.3	...	10.22	1.18	...	...	...	258.6	49.9	1	...	...	...
J05320185-6717499	05 32 01.85	-67 17 50.0	152908	9.37	1.02	13.43	1.75	0.94	301.8	45.1	1	...	...	SP77 45-59
J05320212-6945479	05 32 02.13	-69 45 47.9	...	8.67	1.10	...	...	...	288.6	47.6	1	...	...	...
J05320519-7139383	05 32 05.19	-71 39 38.4	...	10.07	1.22	...	...	...	212.9	21.4	1	...	...	...
J05320882-6711185 ^b	05 32 08.82	-67 11 18.5	153298	8.69	1.07	13.11	1.85	1.03	297.6	42.9	1	M1I	13	...
J05321389-6907233	05 32 13.89	-69 07 23.4	153566	9.96	1.08	14.07	1.47	0.90	268.2	48.4	1	...	...	...
J05321853-7045089	05 32 18.53	-70 45 09.0	...	9.61	1.07	...	...	...	250.6	55.4	1	...	...	...
J05321924-6725002 ^b	05 32 19.25	-67 25 00.3	153866	8.87	1.04	13.16	1.82	1.01	296.4	45.9	1	M1I	13	...
J05322795-6650229	05 32 27.95	-66 50 22.9	...	9.47	1.01	...	...	...	303.2	45.8	1	...	...	...
J05322802-6646429	05 32 28.03	-66 46 42.9	...	9.13	1.07	...	...	...	305.7	45.0	1	M0	14	[RM85] 38
J05323133-6920254 ^b	05 32 31.33	-69 20 25.5	154542	8.63	1.11	13.02	1.94	1.01	273.9	46.2	1	M0I	13	SP77 54-3
J05323219-6658149	05 32 32.19	-66 58 15.0	...	8.36	1.09	12.99	1.71	...	311.4	29.1	1	...	...	RM 1-573
J05323285-6710423	05 32 32.86	-67 10 42.3	154608	7.62	0.95	11.23	1.51	0.83	303.5	57.0	1	...	...	...
J05323576-7126498	05 32 35.77	-71 26 49.9	...	9.56	1.13	...	...	...	229.1	51.8	1	...	...	...
J05323813-6654182	05 32 38.14	-66 54 18.3	...	9.74	1.03	...	...	...	302.9	46.0	1	...	...	...
J05325023-6727450 ^b	05 32 50.24	-67 27 45.0	155529	8.05	1.13	13.34	1.84	1.20	282.4	35.9	1	M3I	13	...
J05325463-6903365	05 32 54.63	-69 03 36.5	155741	9.53	1.26	14.44	1.96	1.11	262.7	51.0	1	...	...	...
J05325544-6815484	05 32 55.44	-68 15 48.4	155787	10.00	1.56	15.54	1.14	1.18	268.3	22.6	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s ⁻¹)	Category ^e	Class	Ref. ^f	Comments
J05330018-6936311	05 33 00.19	-69 36 31.1	...	8.87	1.14	...	...	...	283.6	48.9	1	...	...	...
J05330202-6724143	05 33 02.02	-67 24 14.3	156131	8.85	1.05	12.99	1.84	0.96	290.9	47.8	1	...	...	...
J05330324-6909160	05 33 03.25	-69 09 16.1	156197	9.47	1.13	14.05	1.90	1.02	256.1	52.2	1	...	...	...
J05330440-7048301	05 33 04.41	-70 48 30.2	...	9.05	1.01	...	...	...	245.0	49.5	1	...	...	...
J05330518-6716017	05 33 05.18	-67 16 01.8	156301	9.30	1.01	13.41	1.80	0.93	300.5	47.4	1	...	...	...
J05330760-6648056	05 33 07.61	-66 48 05.7	...	8.61	1.17	...	...	...	304.3	22.5	1	M2	15	RM 1-589
J05330874-7027263	05 33 08.75	-70 27 26.3	...	9.99	0.99	...	...	...	249.9	49.2	1	...	...	...
J05331611-6707107	05 33 16.11	-67 07 10.8	156869	9.04	1.12	13.38	1.86	1.02	306.9	40.2	1	M1	12	WOH S 397
J05331735-6732061	05 33 17.35	-67 32 06.2	156915	9.87	1.03	13.73	1.57	0.87	302.8	47.4	1	...	...	...
J05331961-6705219	05 33 19.61	-67 05 22.0	157023	9.70	1.01	13.42	1.35	0.82	302.6	44.6	1	...	...	...
J05332682-6704133 ^b	05 33 26.82	-67 04 13.4	157401	7.82	1.13	12.27	1.99	1.06	293.3	24.2	1	M3I	13	TRM 63
J05332918-7057158	05 33 29.19	-70 57 15.8	...	10.11	1.21	...	...	...	236.3	42.9	1	...	...	...
J05332959-6731376 ^b	05 33 29.60	-67 31 37.6	157533	8.82	1.12	13.16	1.50	0.99	297.3	44.5	1	K5I	10	...
J05333927-6743304	05 33 39.27	-67 43 30.4	158053	9.26	1.35	14.49	1.90	1.19	285.3	48.4	1	...	...	...
J05333934-6910526	05 33 39.34	-69 10 52.6	158070	9.04	1.16	13.84	1.87	1.14	257.6	28.3	1	...	...	...
J05334455-6724168 ^b	05 33 44.55	-67 24 16.9	158317	8.49	1.22	13.35	1.96	1.12	300.4	39.3	1	M1I	10	...
J05335736-7050132	05 33 57.37	-70 50 13.2	...	10.01	1.03	...	...	...	258.6	51.3	1	...	...	...
J05335796-6703559 ^a	05 33 57.97	-67 03 55.9	158907	9.16	1.09	13.45	1.64	0.94	297.6	44.3	1	...	...	...
J05340987-6657412	05 34 09.87	-66 57 41.3	...	8.69	1.05	12.96 ^c	1.88 ^c	...	303.3	42.5	1	...	...	SP77 52-24
J05341214-7149419	05 34 12.15	-71 49 41.9	...	9.18	1.03	...	...	...	11.3	75.5	3	...	...	...
J05341360-6649004	05 34 13.60	-66 49 00.5	...	9.43	1.06	...	...	...	303.5	44.3	1	...	...	...
J05342672-6835265	05 34 26.72	-68 35 26.5	160202	10.09	0.98	13.84	1.35	0.85	266.0	48.1	1	...	...	...
J05342818-7017132	05 34 28.19	-70 17 13.2	...	10.27	1.02	...	...	...	242.4	52.1	1	...	...	...
J05344051-7034280	05 34 40.52	-70 34 28.0	...	9.99	1.24	...	...	...	225.4	23.1	1	...	...	...
J05345112-7103467	05 34 51.12	-71 03 46.7	...	9.74	0.93	...	...	...	289.5	52.6	1	...	...	...
J05351891-6702196	05 35 18.91	-67 02 19.6	...	8.34	1.21	...	...	...	308.2	40.6	1	M2I	15	HV 2700
J05352225-6902230	05 35 22.25	-69 02 23.1	162517	8.75	1.19	14.01	2.05	1.21	287.4	48.6	1	...	...	...
J05352832-6656024	05 35 28.33	-66 56 02.4	...	7.26	1.10	...	...	...	310.6	29.6	1	M3I	15	TRM 68
J05353280-6904191 ^b	05 35 32.81	-69 04 19.2	163007	8.20	1.25	13.07	1.51	1.04	294.1	46.1	1	K7I	13	...
J05353453-6905060	05 35 34.54	-69 05 06.0	163066	9.96	1.31	15.10	1.93	1.16	280.9	47.4	1	...	...	...
J05353531-6705063	05 35 35.32	-67 05 06.4	163103	...	0.98	13.72	1.69	0.88	319.2	48.7	1	...	...	...
J05355030-6736349	05 35 50.30	-67 36 35.0	163738	8.26	1.20	13.20	2.10	1.13	290.6	45.7	1	...	...	...
J05360792-6912330	05 36 07.92	-69 12 33.1	164579	8.84	1.21	13.60	1.85	1.06	282.9	49.2	1	G8/K0	17	[ST92] 2- 58
J05361426-6940573	05 36 14.27	-69 40 57.3	...	10.25	1.34	...	...	...	264.2	28.9	1	...	...	...
J05362160-6920560	05 36 21.61	-69 20 56.0	165299	9.67	1.05	13.78	1.76	0.91	284.0	49.7	1	...	...	...
J05363113-6950075	05 36 31.13	-69 50 07.5	...	9.19	1.18	...	...	...	281.8	49.2	1	...	...	...
J05364101-6914064	05 36 41.01	-69 14 06.5	...	9.30	1.68	...	...	...	287.8	45.5	1	...	...	...
J05364678-6945333	05 36 46.78	-69 45 33.3	...	9.43	1.24	...	...	...	274.0	42.1	1	...	...	...
J05364751-6910103	05 36 47.52	-69 10 10.4	166527	9.21	1.19	13.78	1.98	1.04	282.3	50.0	1	...	...	...
J05365139-6913202	05 36 51.40	-69 13 20.3	166719	10.21	1.62	16.36	1.82	0.84	279.9	47.1	1	...	...	...
J05370114-6715431	05 37 01.15	-67 15 43.1	167163	8.69	1.09	13.27	1.91	1.05	306.2	42.5	1	...	...	...
J05370482-7054072	05 37 04.82	-70 54 07.2	...	10.26	1.00	...	...	...	250.2	57.0	1	...	...	...
J05371351-6908345	05 37 13.51	-69 08 34.6	167727	8.29	1.43	14.17	2.14	1.25	293.7	42.1	1	...	...	...
J05372049-6919386 ^b	05 37 20.50	-69 19 38.6	168047	8.28	1.14	12.47	1.54	0.97	260.9	50.0	1	K2/7I	13	...
J05372967-6705336	05 37 29.68	-67 05 33.6	168432	10.28	1.30	15.91	1.47	1.30	295.8	28.8	1	...	...	...
J05373682-6929234 ^b	05 37 36.82	-69 29 23.4	168757	8.21	1.24	14.08	1.77	1.34	262.1	30.2	1	M3/4I	11	...
J05374304-6924599 ^b	05 37 43.04	-69 24 60.0	169049	7.87	1.19	12.65	2.02	1.14	264.0	39.6	1	M1/3I	13	...
J05374588-6957022	05 37 45.88	-69 57 02.3	...	10.24	1.36	...	...	...	248.9	19.1	1	...	...	...
J05374706-6934464	05 37 47.06	-69 34 46.5	...	9.80	1.21	...	...	...	257.9	29.3	1	...	...	...
J05374793-6941547	05 37 47.93	-69 41 54.7	...	10.06	1.26	...	...	...	282.6	35.0	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^d (km s $^{-1}$)	Category ^e	Class	Ref. ^f	Comments
J05375464-6909032	05 37 54.64	-69 09 03.3	169566	9.07	1.23	14.01	1.82	1.11	257.1	51.3	1	M	9	[ST92] 1- 88
J05375867-6914239 ^b	05 37 58.67	-69 14 24.0	169754	8.38	1.15	13.21	2.15	1.13	276.1	49.1	1	K2/3I	13	...
J05380220-6659404	05 38 02.20	-66 59 40.4	...	10.14	1.21	...	...	...	273.2	23.4	1	...	...	...
J05380376-7157540	05 38 03.77	-71 57 54.0	...	10.06	1.21	...	...	...	259.3	30.4	1	...	...	...
J05380642-6708534	05 38 06.43	-67 08 53.5	170068	9.60	1.13	14.16	1.84	1.04	283.7	49.6	1	...	...	...
J05380659-6903452	05 38 06.59	-69 03 45.2	170078	9.41	1.12	14.06	2.30	1.15	260.6	50.7	1	...	...	...
J05380665-6917296 ^b	05 38 06.65	-69 17 29.7	170079	7.91	1.43	14.60	2.30	1.60	251.3	20.4	1	M3I	13	...
J05381601-6910112 ^b	05 38 16.02	-69 10 11.2	170452	7.87	1.44	13.99	2.39	1.50	289.8	23.3	1	M4.5/5I	11	HTR 6
J05381834-6951311	05 38 18.34	-69 51 31.2	...	6.61	1.12	...	...	...	20.6	57.0	3	M0	3	HD 269898
J05383452-6934396	05 38 34.53	-69 34 39.6	...	8.43	1.36	...	...	...	273.9	42.9	1	...	...	...
J05383892-6727394	05 38 38.92	-67 27 39.5	171422	9.99	1.03	13.92	1.42	0.93	293.3	48.1	1	...	...	...
J05384037-6828120	05 38 40.37	-68 28 12.0	171490	8.89	1.12	13.23	1.91	0.99	273.2	42.4	1	...	...	...
J05384164-6640036	05 38 41.64	-66 40 03.6	...	9.06	1.04	...	...	...	282.2	49.5	1	...	...	...
J05384932-6927064 ^a	05 38 49.33	-69 27 06.5	...	6.39	1.01	...	...	...	13.8	69.0	3	K5	3	HD 269924
J05385303-6705496 ^a	05 38 53.03	-67 05 49.6	172027	9.97	1.27	15.21	1.69	1.21	276.5	32.2	1	...	...	...
J05390099-6825107	05 39 00.99	-68 25 10.8	172338	8.88	1.19	13.81	1.95	1.16	278.4	35.7	1	...	...	...
J05391266-6854382	05 39 12.66	-68 54 38.3	172822	9.74	1.19	14.30	1.96	1.03	279.0	49.7	1	...	...	...
J05391627-6820094	05 39 16.28	-68 20 09.4	172970	10.18	1.27	15.50	1.53	1.10	259.1	26.5	1	...	...	...
J05394613-6919282 ^b	05 39 46.13	-69 19 28.2	173854	8.47	1.22	13.60	2.08	1.19	242.4	46.0	1	MII	13	...
J05395239-6909412	05 39 52.39	-69 09 41.2	173997	9.41	1.28	14.23	1.44	1.03	246.5	54.8	1	...	...	...
J05395729-6721433	05 39 57.30	-67 21 43.3	...	9.10	1.19	...	...	...	289.8	36.3	1	...	...	...
J05400284-6810249	05 40 02.84	-68 10 24.9	...	10.11	1.23	...	...	...	285.0	46.0	1	...	...	...
J05400533-6720151	05 40 05.33	-67 20 15.2	...	9.73	1.02	...	...	...	291.3	46.2	1	...	...	...
J05400700-6911415	05 40 07.01	-69 11 41.6	174306	9.72	1.32	14.92	1.95	1.24	248.6	51.4	1	...	...	...
J05400761-6920049 ^b	05 40 07.62	-69 20 05.0	174324	8.29	1.20	13.83	1.91	1.26	262.7	37.6	1	M2/3I	13	...
J05400798-7009025	05 40 07.99	-70 09 02.5	...	10.11	1.32	...	...	...	265.6	41.9	1	...	...	...
J05401638-6659303	05 40 16.39	-66 59 30.4	...	9.57	1.19	...	...	...	278.9	46.4	1	...	...	...
J05401986-7029094	05 40 19.86	-70 29 09.4	...	9.36	1.14	...	...	...	258.4	49.9	1	...	...	...
J05402444-6921169 ^b	05 40 24.45	-69 21 17.0	174714	7.85	1.29	13.13	1.98	1.21	253.9	33.8	1	M1.5I	10	...
J05405336-6945248	05 40 53.37	-69 45 24.9	...	8.89	1.41	...	...	...	250.0	51.4	1	...	...	...
J05405628-6853465	05 40 56.28	-68 53 46.5	175481	10.12	1.19	14.86	1.72	0.98	271.6	43.6	1	...	...	...
J05410178-6724373	05 41 01.79	-67 24 37.3	...	10.21	1.14	...	...	...	315.8	45.7	1	...	...	...
J05410506-6904423 ^b	05 41 05.06	-69 04 42.4	175709	7.97	1.26	12.74	1.95	1.06	250.3	48.1	1	M0I	13	SP77 54-36
J05413791-7008528	05 41 37.91	-70 08 52.9	...	9.21	1.12	...	...	...	250.8	50.9	1	...	...	...
J05414402-6912027 ^b	05 41 44.02	-69 12 02.8	176715	8.40	1.18	13.05	1.13	0.98	244.5	47.2	1	M0I	13	...
J05414819-7007301	05 41 48.20	-70 07 30.1	...	10.02	1.23	...	...	...	270.4	41.5	1	...	...	...
J05420252-6834463	05 42 02.53	-68 34 46.3	177195	8.85	1.09	13.26	1.69	0.98	274.4	41.6	1	...	...	...
J05420475-6910588	05 42 04.76	-69 10 58.9	177247	9.16	1.16	13.80	1.75	1.03	248.4	50.5	1	...	...	...
J05421898-6858067	05 42 18.98	-68 58 06.8	177630	8.92	1.08	13.48	2.00	1.01	261.9	47.4	1	...	...	...
J05421968-6916207	05 42 19.69	-69 16 20.7	177645	8.94	1.31	14.44	1.96	1.25	241.4	46.4	1	...	...	...
J05423237-6803413	05 42 32.38	-68 03 41.4	...	6.21	1.05	10.13	1.59	...	112.2	60.6	3	K4III	1	HD 270038
J05424212-7009044	05 42 42.13	-70 09 04.5	...	9.92	0.94	...	...	...	257.9	49.3	1	...	...	...
J05430109-6842545	05 43 01.10	-68 42 54.6	178532	9.85	0.99	13.82	1.85	0.89	275.9	49.2	1	...	...	...
J05430231-6719522	05 43 02.32	-67 19 52.3	...	8.71	1.05	...	...	...	300.6	42.5	1	...	...	...
J05431491-6723166	05 43 14.91	-67 23 16.7	...	9.76	1.13	...	...	...	310.1	32.1	1	...	...	...
J05432702-6748390	05 43 27.03	-67 48 39.1	...	8.43	0.99	12.64 ^c	1.93 ^c	...	300.8	44.7	1	...	...	SP77 53-39
J05433400-6849157	05 43 34.01	-68 49 15.7	179141	9.65	1.02	13.67	1.78	0.90	240.3	47.5	1	...	...	...
J05444309-7024365	05 44 43.10	-70 24 36.6	...	10.03	1.23	...	...	...	258.0	37.9	1	...	...	...
J05451894-6800426	05 45 18.94	-68 00 42.7	...	10.28	1.01	...	...	...	305.8	47.7	1	...	...	...
J05452625-6743557	05 45 26.25	-67 43 55.7	...	9.75	1.15	...	...	...	257.0	30.4	1	...	...	...

Table 2—Continued

2MASS	α (J2000)	δ (J2000)	[M2002]	$K_{2\text{MASS}}$	$J - K_{2\text{MASS}}$	V	$B - V$	$V - R$	Vel	r^{d} (km s^{-1})	Category ^e	Class	Ref. ^f	Comments
J05453132-7127168	05 45 31.33	-71 27 16.9	...	10.26	1.21	...	...	...	266.4	36.6	1	...	...	...
J05455459-6758209	05 45 54.60	-67 58 20.9	...	9.65	1.03	...	...	...	293.2	47.5	1	...	...	...
J05455613-6747570	05 45 56.13	-67 47 57.0	...	10.25	1.00	...	...	...	287.9	52.3	1	...	...	...
J05460978-7126310	05 46 09.79	-71 26 31.1	...	9.96	1.20	...	...	...	234.3	29.6	1	...	...	...
J05470489-6743397	05 47 04.89	-67 43 39.8	...	9.67	1.02	...	...	...	286.6	50.3	1	...	...	...
J05471317-7054159	05 47 13.17	-70 54 16.0	...	10.01	1.22	...	...	...	252.1	24.3	1	...	...	...
J05475266-7030372	05 47 52.67	-70 30 37.2	...	9.97	1.27	...	...	...	247.3	18.4	1	...	...	...
J05481146-7059547 ^a	05 48 11.47	-70 59 54.7	...	9.69	1.11	...	...	...	274.7	33.1	1	...	...	...
J05481398-6952301	05 48 13.98	-69 52 30.1	...	9.72	1.51	...	...	...	273.3	49.2	1	...	...	...
J05482661-7009101	05 48 26.61	-70 09 10.1	...	10.07	1.33	...	...	...	271.3	44.4	1	...	...	...
J05483574-7029282	05 48 35.75	-70 29 28.2	...	10.15	1.28	...	...	...	267.2	18.4	1	...	...	...
J05485505-6924253	05 48 55.05	-69 24 25.4	...	9.92	1.01	...	...	...	252.0	49.0	1	...	...	...
J05490143-7035184 ^a	05 49 01.43	-70 35 18.5	...	9.14	1.07	...	...	...	247.7	51.2	1	...	...	...
J05493359-7039593 ^a	05 49 33.60	-70 39 59.4	...	10.28	1.20	...	...	...	268.2	28.6	1	...	...	...
J05494350-7054315 ^a	05 49 43.50	-70 54 31.5	...	10.29	0.88	...	...	...	85.6	42.3	3	...	...	...
J05500007-7002441	05 50 00.08	-70 02 44.2	...	9.62	1.18	...	...	...	267.5	18.6	1	...	...	...
J05501458-7018129	05 50 14.59	-70 18 13.0	...	6.91	1.19	...	...	...	66.6	38.0	3	...	...	...
J05511985-6951518	05 51 19.86	-69 51 51.9	...	10.19	1.17	...	...	...	275.0	44.0	1	...	...	...
J05524867-6938159	05 52 48.67	-69 38 15.9	...	10.13	1.19	...	...	...	273.5	36.0	1	...	...	...
J05530030-7011022	05 53 00.30	-70 11 02.2	...	8.00	1.14	...	...	...	229.8	50.7	1	...	...	...
J05540631-6937237	05 54 06.31	-69 37 23.8	...	9.42	1.16	...	...	...	262.2	50.4	1	...	...	...

*The full version of this table can be found online. If there is a M2002 designation, the photometry is from Massey 2002. If there is not, the photometry is from the same source of the spectral type unless otherwise noted.

^aThese stars were imaged twice and their results were averaged.

^bThese stars were previously imaged by Massey & Olsen 2003.

^cReference for $B - V$ colors and V magnitudes = Oestreich et al. 1997

^dTondry & Davis 1979 r parameter.

^eCategory: 1 = LMC supergiant; 2 = possible LMC supergiant; 3 = foreground dwarf

^fReferences for spectral classifications. 1 = Ardeberg et al. 1972; 2 = Blanco & McCarthy 1990; 3 = Cannon 1925; 4 = Conti et al. 1981; 5 = Feast 1979; 6 = Fitzpatrick 1991; 7 = Henize 1956; 8 = Humphreys 1974; 9 = Hyland et al. 1978; 10 = Levesque et al. 2006; 11 = Levesque et al. 2007; 12 = Lundgren 1988; 13 = Massey & Olsen 2003; 14 = Reid & Mould 1985; 15 = Reid et al. 1990; 16 = Sanduleak & Pesch 1975; 17 = Schild & Testor 1992.

Table 3. LMC Yellow Supergiants Not Observed

2MASS	α_{2000}	δ_{2000}	K	$J - K$	V	Lit.	Ref. ^a	Alt. Names	Comment
J04541425-6912366	04 54 14.25	-69 12 36.7	7.45	0.57	10.1	G8 0	3	HD 268757; RMC 59	Unobserved candidate
J04550339-6813213	04 55 03.39	-68 13 21.3	12.21	0.20	13.2	A9I	5	SOI 310; [M2002] 23123	Unobserved candidate
J04560089-6626165	04 56 00.90	-66 26 16.5	13.49	0.04	12.0	G2Ib	2	RMC 63; HV 6597	K magnitude too faint
J04565470-6705096	04 56 54.70	-67 05 09.7	11.37	0.35	12.7	F0:I:	5	SOI 113; [M2002] 31334	Unobserved candidate
J05004088-6628305	05 00 40.88	-66 28 30.5	9.40	0.31	10.7	F6Ia	1	HD 268822; Sk-66 48	Unobserved candidate
J05111654-6823335	05 11 16.55	-68 23 33.5	11.87	0.12	12.7	F0I	5	SOI 368	Unobserved candidate
J05124426-6715577	05 12 44.26	-67 15 57.7	9.19	0.37	10.5	F6Ia	1	HD 269154; Sk-67 60	Unobserved candidate
J05210170-6548026	05 21 01.71	-65 48 02.7	8.22	0.26	9.7	F8 0	3	HD 271182; RMC 92	Unobserved candidate
J05282034-6724182	05 28 20.34	-67 24 18.3	9.23	0.31	10.6	F8Ia	1	HD 269594; Sk-67 125	Unobserved candidate
J05385162-6908071	05 38 51.62	-69 08 07.2	10.05	0.45	12.0	F7Ia	4	RMD 143	2MASS extended source contamination
J05450060-6710342	05 45 00.61	-67 10 34.3	8.74	0.34	10.2	F8Ia	1	HD 270111; Sk-67 260	Unobserved candidate

^aReferences for spectral classifications and V magnitudes. 1 = Ardeberg et al. 1972; 2 = Feast et al. 1960; 3 = Keenan & McNeil 1989; 4 = Melnick 1985; 5 = Rousseau et al. 1978.

Table 4. Derived Properties of LMC Yellow and Red Supergiants

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05055551-6753108	1	3.854	5.716	Y
J05322496-6741536	1	3.702	5.600	Y
J05294221-6857173	1	3.589	5.533	R
J04551106-6710104	1	3.884	5.491	Y
J04543683-6920221	1	3.650	5.478	Y
J05401217-6940049	1	3.692	5.437	Y
J05342246-6701235	1	3.891	5.433	Y
J05051222-6644126	1	3.946	5.398	Y
J04553248-6957450	1	3.784	5.381	Y
J05380957-6906213	1	3.793	5.352	Y
J05352832-6656024	1	3.576	5.350	R
J05323285-6710423	1	3.605	5.349	R
J05361007-6855411	1	3.791	5.335	Y
J05042677-6717427	1	4.022	5.332	Y
J05363237-6854015	1	3.820	5.331	Y
J05180182-6933377	2	3.810	5.307	Y
J05195326-6804037	1	3.561	5.307	R
J05300226-6702452	1	3.637	5.298	Y
J05313841-6728116	1	3.797	5.278	Y
J05282792-6912573	1	3.684	5.270	Y
J05360450-6924083	1	3.884	5.259	Y
J05091058-6936121	1	3.750	5.251	Y
J05214694-7119437	1	3.630	5.245	Y
J05345016-6721124	1	3.988	5.243	Y
J05343435-6658234	1	3.955	5.241	Y
J04553197-6650379	1	3.592	5.232	R
J05144972-6727197	1	3.550	5.222	R
J05364719-6645459	1	3.733	5.207	Y
J05284548-6858022	1	3.563	5.201	R
J05302256-6919389	1	3.897	5.192	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05315335-6640432	1	3.558	5.181	R
J05305147-6902587	1	3.807	5.179	Y
J05275120-6900553	1	3.846	5.178	Y
J04505585-6925525	1	3.784	5.169	Y
J05350023-6701126	1	3.912	5.167	Y
J05283137-6853557	1	3.910	5.166	Y
J05292143-6900202	1	3.578	5.162	R
J05274747-6913205	1	3.552	5.153	R
J04564849-6939549	1	3.576	5.148	R
J05405780-6915311	1	3.830	5.145	Y
J05301564-6732218	1	4.017	5.139	Y
J05055813-7032056	1	3.742	5.137	Y
J05305009-6931293	1	3.830	5.135	Y
J05102280-6846238	1	3.872	5.134	Y
J05422917-6719419	1	3.821	5.132	Y
J05292099-6847313	1	3.600	5.128	R
J05350360-6945020	1	4.000	5.116	Y
J05332682-6704133	1	3.568	5.108	R
J05412768-6948037	1	3.990	5.096	Y
J04552165-6947167	1	3.530	5.096	R
J04570805-6825123	1	4.033	5.071	Y
J05315227-6832388	1	3.882	5.069	Y
J05341846-6718137	1	3.976	5.067	Y
J05303245-6909119	1	3.847	5.066	Y
J05261181-7133407	1	4.027	5.066	Y
J05340996-6859127	1	3.992	5.065	Y
J05374304-6924599	1	3.557	5.059	R
J04545735-6645088	1	3.902	5.055	Y
J05260034-7135488	1	3.553	5.046	R
J05275361-6901584	1	3.861	5.045	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05344326-6704104	1	3.630	5.038	Y
J05530030-7011022	1	3.567	5.034	R
J05040502-7022461	1	3.585	5.033	R
J05133288-6921425	1	3.577	5.026	R
J05305165-7055279	1	3.579	5.024	R
J05325023-6727450	1	3.569	5.018	R
J05402444-6921169	1	3.535	5.013	R
J05044174-7042371	1	3.564	5.013	R
J04515810-6925339	1	3.763	5.000	Y
J05055667-7035238	1	3.571	4.997	R
J05405915-6920354	1	3.772	4.990	Y
J05174636-6950571	1	3.891	4.989	Y
J05140191-6727069	1	3.937	4.986	Y
J05181920-6911406	1	3.988	4.985	Y
J05410506-6904423	1	3.542	4.981	R
J05183070-6806276	1	3.582	4.980	R
J05183017-6913140	1	4.022	4.973	Y
J05253102-6616566	1	3.474	4.973	R
J05284917-6659362	1	4.008	4.971	Y
J05412039-6905073	1	3.927	4.970	Y
J04544414-6714505	1	4.026	4.969	Y
J05292502-6828010	1	3.914	4.968	Y
J05014519-7035523	1	4.001	4.966	Y
J05315299-6650376	1	3.579	4.963	R
J05335751-6651171	1	3.968	4.947	Y
J05050303-6918308	1	3.575	4.947	R
J05215672-6926543	1	3.993	4.941	Y
J05183863-6945467	1	3.787	4.941	Y
J05374913-6855016	1	3.953	4.938	Y
J05432702-6748390	1	3.597	4.938	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05340302-6700596	1	4.035	4.931	Y
J04564941-6948314	1	3.645	4.927	Y
J04470444-6706530	1	3.915	4.927	Y
J05381601-6910112	1	3.498	4.926	R
J05311544-6903588	1	3.560	4.926	R
J05300709-6715431	1	3.956	4.925	Y
J04505868-6914027	1	3.580	4.923	R
J05372049-6919386	1	3.567	4.921	R
J05215599-6712455	1	3.554	4.920	R
J05153729-6707123	1	3.564	4.918	R
J05380665-6917296	1	3.502	4.915	R
J05323219-6658149	1	3.577	4.913	R
J04513099-6914518	1	3.557	4.912	R
J04563991-6644367	1	3.956	4.910	Y
J05290839-6912183	1	3.573	4.909	R
J05275113-6910460	1	3.564	4.908	R
J05141885-6715493	1	3.632	4.901	Y
J04492676-6845059	1	3.533	4.901	R
J05312597-6917255	1	4.013	4.900	Y
J05282196-6859482	1	3.811	4.898	Y
J05045412-7033184	1	3.578	4.898	R
J05355030-6736349	1	3.554	4.896	R
J04562827-6940369	1	3.580	4.895	R
J05353280-6904191	1	3.543	4.894	R
J04562363-6942110	1	3.584	4.894	R
J05373682-6929234	1	3.545	4.893	R
J05261135-6612111	1	3.484	4.891	R
J05055950-7048112	1	3.561	4.891	R
J05312818-6703228	1	3.612	4.890	Y
J05102739-6909117	1	3.869	4.890	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05400761-6920049	1	3.555	4.889	R
J05325789-6650341	1	4.001	4.887	Y
J05140442-6715506	1	3.862	4.887	Y
J04594353-6831228	1	3.748	4.885	Y
J05300291-6846038	1	3.572	4.883	R
J05041492-6715052	1	3.821	4.879	Y
J05424862-6833431	1	4.033	4.877	Y
J05364307-6908536	1	3.787	4.877	Y
J05311283-6715079	1	3.950	4.875	Y
J05375867-6914239	1	3.565	4.874	R
J05311793-6709251	1	3.969	4.869	Y
J05314740-6723032	1	3.595	4.868	R
J05290078-6846335	1	3.571	4.868	R
J04585639-7113137	1	3.577	4.865	R
J05351891-6702196	1	3.553	4.863	R
J05121735-6717544	1	3.638	4.859	Y
J05031360-6833353	1	3.968	4.858	Y
J05321914-6659524	1	3.939	4.856	Y
J05402535-6914362	1	3.811	4.854	Y
J05414402-6912027	1	3.559	4.852	R
J04521129-7148341	2	3.633	4.847	Y
J05301284-6656013	1	3.583	4.847	R
J05244151-6636470	1	3.576	4.845	R
J05052070-7044306	1	3.905	4.842	Y
J05000756-6826599	1	3.680	4.841	Y
J05175743-6808412	1	3.574	4.841	R
J04540818-7006241	1	3.578	4.835	R
J05214834-6757515	1	3.545	4.830	R
J04551006-6650426	1	3.874	4.829	Y
J05281778-6904185	1	3.787	4.828	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05305564-6716162	1	4.027	4.825	Y
J05013223-6810430	1	3.926	4.823	Y
J05413010-6919312	1	3.871	4.816	Y
J05302209-6706315	1	3.577	4.815	R
J05224569-6950516	1	3.718	4.812	Y
J04523565-7040427	1	3.573	4.810	R
J05175634-6940253	1	3.570	4.809	R
J05330109-6922292	1	3.884	4.807	Y
J05173283-6945074	1	3.925	4.805	Y
J04564000-6941562	1	3.742	4.804	Y
J05340987-6657412	1	3.586	4.804	R
J05355079-6726294	1	3.930	4.802	Y
J05230392-6704254	1	3.582	4.802	R
J05332691-6729082	1	3.963	4.800	Y
J05305376-6911409	1	3.995	4.799	Y
J05094518-6846099	1	4.027	4.799	Y
J05430231-6719522	1	3.587	4.798	R
J05394613-6919282	1	3.549	4.798	R
J05334455-6724168	1	3.551	4.796	R
J05323133-6920254	1	3.573	4.794	R
J05292596-6658355	1	3.583	4.794	R
J04462599-6950186	1	3.640	4.793	Y
J05420016-6912450	1	3.885	4.792	Y
J05320882-6711185	1	3.581	4.792	R
J05293537-6830455	1	3.548	4.791	R
J05405799-6913537	1	3.712	4.790	Y
J05370114-6715431	1	3.578	4.786	R
J05320212-6945479	1	3.575	4.785	R
J05314932-6913146	1	3.992	4.784	Y
J05445058-6729405	1	3.717	4.783	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04540879-6832314	1	3.572	4.783	R
J05300459-6847288	1	3.589	4.780	R
J05311843-6909282	1	3.565	4.776	R
J05362519-6941315	1	3.694	4.775	Y
J05223109-6934051	1	3.568	4.775	R
J05265854-6700474	1	3.584	4.774	R
J05374903-6905082	1	3.836	4.772	Y
J05330760-6648056	1	3.561	4.772	R
J05024927-6622210	1	3.591	4.770	R
J05312426-6841336	1	3.571	4.769	R
J05131599-6717472	1	3.887	4.762	Y
J05371351-6908345	1	3.502	4.762	R
J05200217-6803482	1	3.711	4.761	Y
J05301488-6658549	1	4.010	4.759	Y
J05185836-6941452	1	3.580	4.757	R
J05265899-6651205	1	3.572	4.754	R
J05331003-6743596	1	3.658	4.749	Y
J04463462-6704279	2	3.686	4.749	Y
J05011887-7037492	1	3.976	4.748	Y
J05383452-6934396	1	3.519	4.747	R
J05130816-6708417	1	3.577	4.747	R
J05311208-6700590	1	3.585	4.743	R
J05330202-6724143	1	3.586	4.740	R
J05353030-6815035	1	3.649	4.739	Y
J04593388-6846242	1	3.590	4.737	R
J05321924-6725002	1	3.588	4.736	R
J05300494-6903597	1	3.577	4.735	R
J05304198-6905231	1	3.569	4.734	R
J05322128-6641190	1	3.974	4.732	Y
J05113937-7113199	1	3.583	4.732	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05051321-7042216	1	3.594	4.732	R
J05420932-6827311	1	3.781	4.730	Y
J05311586-6710252	1	3.956	4.727	Y
J05323000-6711465	1	4.004	4.722	Y
J05300124-6714368	1	3.944	4.721	Y
J04525078-7046303	1	3.592	4.721	R
J05315298-6712152	1	4.037	4.719	Y
J05244341-7000011	1	3.572	4.719	R
J05420252-6834463	1	3.577	4.718	R
J05314567-6656488	1	3.577	4.718	R
J04513589-6932333	1	3.580	4.718	R
J05184360-6807336	1	3.974	4.717	Y
J05361710-6911036	1	3.937	4.715	Y
J05370919-6920196	1	3.985	4.714	Y
J05343086-6946517	1	4.037	4.714	Y
J05222767-6808518	2	3.614	4.714	Y
J05403429-6933245	1	3.854	4.712	Y
J05295734-6650274	1	3.573	4.712	R
J04565646-6924053	1	3.575	4.712	R
J05071597-6853006	1	3.745	4.711	Y
J05332959-6731376	1	3.571	4.711	R
J05294393-7028522	1	3.611	4.711	R
J05362147-6906478	1	3.896	4.710	Y
J05281487-6632461	1	3.572	4.709	R
J05304842-6716458	1	3.583	4.708	R
J04554043-6926408	1	3.963	4.706	Y
J05193050-6841096	1	3.678	4.703	Y
J05352225-6902230	1	3.556	4.703	R
J05421155-6901392	1	3.979	4.702	Y
J05244988-6628464	1	3.504	4.702	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log(L/L_{\odot})$	Color
J05301088-6655119	1	3.589	4.700	R
J05372422-6925560	1	3.933	4.699	Y
J05134389-6722481	1	3.590	4.699	R
J05215404-6754528	1	3.963	4.698	Y
J05341110-6925446	1	3.832	4.697	Y
J05063943-6821307	1	3.573	4.697	R
J05421898-6858067	1	3.580	4.696	R
J05354159-6951148	1	3.834	4.695	Y
J05322891-6731550	1	3.946	4.693	Y
J05294033-6650169	1	3.595	4.693	R
J05404247-6704005	1	3.975	4.692	Y
J05353110-6645242	1	3.838	4.692	Y
J05235230-6941270	1	4.035	4.692	Y
J05325988-6849254	1	4.000	4.690	Y
J05290123-6853422	1	3.590	4.690	R
J04595731-6748133	1	3.569	4.690	R
J05175981-6916146	1	3.971	4.689	Y
J05234758-6724100	1	3.561	4.689	R
J05095304-6855380	1	3.946	4.686	Y
J05384037-6828120	1	3.571	4.685	R
J05304491-6719548	1	3.567	4.685	R
J05030138-6627392	1	3.990	4.684	Y
J05330018-6936311	1	3.567	4.684	R
J05122818-6715556	1	3.581	4.684	R
J05330440-7048301	1	3.595	4.682	R
J05293745-6652519	1	3.570	4.681	R
J05224709-6712227	1	3.896	4.677	Y
J04535951-6922426	1	4.006	4.677	Y
J05295650-6727308	1	3.992	4.670	Y
J05140600-6920334	1	4.033	4.670	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04523702-6946136	1	3.597	4.670	R
J05165790-6934281	1	3.588	4.669	R
J05412014-6936229	1	3.964	4.667	Y
J05274856-7007266	1	4.031	4.666	Y
J05042141-6626050	1	3.993	4.666	Y
J05304062-6723079	1	3.584	4.666	R
J05404880-6916513	1	3.914	4.665	Y
J05105573-7119021	1	3.579	4.665	R
J05130492-6713314	1	3.586	4.664	R
J05384164-6640036	1	3.588	4.663	R
J05013568-6835358	1	3.568	4.663	R
J05173365-6909236	1	3.558	4.662	R
J05360792-6912330	1	3.553	4.661	R
J05303703-6654472	1	3.585	4.660	R
J04533656-6648318	1	3.581	4.659	R
J04494968-6955336	1	3.574	4.658	R
J05390099-6825107	1	3.557	4.653	R
J05323656-7048246	1	3.842	4.650	Y
J05312962-6641595	1	3.995	4.650	Y
J05310024-6700275	1	3.586	4.649	R
J05003992-7022582	1	3.566	4.649	R
J05131678-6725031	1	3.556	4.648	R
J05322171-6643340	1	3.938	4.647	Y
J05304010-6716379	1	4.004	4.647	Y
J05300160-7157180	1	3.547	4.646	R
J05043276-6620505	1	3.567	4.646	R
J04572625-6853385	1	3.581	4.646	R
J05042791-6749056	1	3.574	4.645	R
J04525644-6925460	1	3.540	4.643	R
J04575230-7014003	1	3.583	4.641	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05490285-7002302	1	3.897	4.635	Y
J05061481-6640459	1	3.806	4.635	Y
J05403692-6919142	1	3.857	4.629	Y
J05330175-6648053	1	3.628	4.629	Y
J04544448-6641336	1	3.968	4.629	Y
J04541753-6712001	1	3.547	4.629	R
J05331611-6707107	1	3.572	4.628	R
J05262598-6612114	1	3.808	4.626	Y
J05045839-7037384	1	3.571	4.626	R
J05062746-6830403	1	3.778	4.625	Y
J05174343-6934151	1	3.585	4.625	R
J05130849-7008223	1	3.618	4.624	Y
J05303399-6713218	1	3.599	4.624	R
J05390594-6916267	1	3.791	4.623	Y
J05180432-6935092	1	3.588	4.621	R
J05282004-6702194	1	3.902	4.618	Y
J05273699-6910370	1	4.010	4.618	Y
J05322802-6646429	1	3.581	4.617	R
J05302547-6657340	1	3.919	4.616	Y
J05274504-7132280	1	3.574	4.616	R
J05193112-6853413	1	3.550	4.616	R
J05285595-6859004	1	3.882	4.615	Y
J05490143-7035184	1	3.582	4.614	R
J05125968-6718003	1	3.574	4.614	R
J05370943-6919283	1	3.876	4.612	Y
J05095880-6907018	1	4.029	4.611	Y
J05285164-6846445	1	3.575	4.611	R
J05110427-6918467	1	3.591	4.611	R
J05255493-6637415	1	3.585	4.608	R
J05264660-6641588	1	3.996	4.607	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05195179-6953084	1	3.865	4.605	Y
J05333934-6910526	1	3.564	4.605	R
J05182891-6945234	1	3.591	4.605	R
J05130709-6718242	1	3.583	4.605	R
J05253695-6836552	1	3.572	4.604	R
J05194426-6802261	1	3.558	4.604	R
J05244436-6937483	1	3.864	4.603	Y
J05254603-6828017	1	3.584	4.602	R
J05274538-6624307	1	3.586	4.600	R
J05032008-6854026	1	3.572	4.598	R
J04533038-6944358	1	3.585	4.598	R
J04560060-7010232	1	3.556	4.596	R
J05221844-6654590	1	3.784	4.595	Y
J04533459-6704429	1	3.908	4.594	Y
J04475403-6910456	1	3.942	4.594	Y
J05310463-6900000	1	3.590	4.593	R
J05335796-6703559	1	3.577	4.592	R
J05074127-6755438	1	3.561	4.589	R
J05195025-6926496	1	3.568	4.588	R
J05183040-6936218	1	3.592	4.588	R
J05305506-6647012	1	3.919	4.586	Y
J04510771-7016397	1	3.889	4.585	Y
J05360114-6650418	1	3.665	4.584	Y
J05314651-6721166	1	3.593	4.584	R
J05300174-6928377	1	3.586	4.583	R
J05401796-6928067	1	3.878	4.582	Y
J05330518-6716017	1	3.593	4.582	R
J05365682-6916183	1	3.857	4.581	Y
J05135366-6703486	1	3.705	4.580	Y
J05304939-6709121	1	3.913	4.577	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05223197-6717241	1	3.974	4.574	Y
J05090871-6859074	1	3.773	4.573	Y
J04565899-6848074	1	3.571	4.573	R
J04560523-6708007	1	3.594	4.573	R
J05343609-6945365	2	3.984	4.571	Y
J05233577-7044553	1	3.597	4.571	R
J04531457-6932266	1	3.556	4.570	R
J05421968-6916207	1	3.530	4.566	R
J05395729-6721433	1	3.557	4.566	R
J05053934-7038446	1	3.599	4.566	R
J04541878-6705471	1	3.990	4.564	Y
J04512113-6856516	1	3.553	4.564	R
J05345377-6908020	1	3.62	4.562	Y
J05402124-6918417	1	3.830	4.559	Y
J05045017-6807523	1	3.934	4.559	Y
J05420475-6910588	1	3.563	4.558	R
J05413791-7008528	1	3.571	4.557	R
J05375464-6909032	1	3.547	4.556	R
J05305705-6641198	1	3.985	4.555	Y
J05232947-6942498	1	3.602	4.555	R
J05265063-6626350	1	3.591	4.554	R
J05003601-7019408	1	3.597	4.549	R
J05093856-6918373	1	3.893	4.548	Y
J05320185-6717499	1	3.591	4.548	R
J05305194-6738103	1	3.948	4.546	Y
J05383697-6905077	1	3.847	4.543	Y
J05243241-6829546	1	3.631	4.542	Y
J05352715-6913524	1	3.939	4.541	Y
J05275533-6906322	1	3.950	4.541	Y
J05100098-6854089	1	3.835	4.541	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log(L/L_{\odot})$	Color
J05051429-6618531	1	3.581	4.541	R
J04482971-6907269	1	3.925	4.540	Y
J05363444-6740313	1	3.786	4.537	Y
J04530398-6937285	1	3.641	4.537	Y
J05274078-6717503	1	3.581	4.537	R
J05085559-6916215	1	3.876	4.536	Y
J05405336-6945248	1	3.507	4.536	R
J05363113-6950075	1	3.559	4.536	R
J05282092-6903254	1	3.521	4.535	R
J05252581-6623186	1	3.566	4.535	R
J05005475-6816290	1	3.581	4.535	R
J04494680-6923138	1	3.553	4.534	R
J04544600-6857459	1	3.924	4.533	Y
J05293083-6847587	1	3.593	4.532	R
J04542171-6845241	1	3.605	4.532	R
J05284952-6647352	1	3.590	4.529	R
J05455985-7113422	1	3.934	4.528	Y
J04563966-6650084	1	3.606	4.528	R
J05234794-7007348	1	3.568	4.526	R
J05401935-6941226	1	3.706	4.524	Y
J05364751-6910103	1	3.556	4.522	R
J05074673-6829313	1	3.586	4.520	R
J05115205-6709577	1	3.656	4.519	Y
J05303848-6900529	1	3.577	4.518	R
J05340114-7042440	1	3.913	4.517	Y
J05292687-6704266	1	3.602	4.516	R
J05322795-6650229	1	3.594	4.513	R
J05041858-7041189	1	3.956	4.510	Y
J04545013-6656221	1	3.929	4.510	Y
J04514507-6930177	1	3.854	4.510	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05305666-6927040	1	3.600	4.510	R
J05345112-7103467	1	3.609	4.509	R
J04491403-6858116	1	3.805	4.508	Y
J04473323-6914328	1	3.871	4.508	Y
J05294333-6712400	1	3.592	4.507	R
J05022839-7209032	1	3.635	4.506	Y
J05341360-6649004	1	3.584	4.503	R
J05421537-6913207	1	3.969	4.502	Y
J05004782-6837461	1	3.948	4.500	Y
J05224365-6937206	1	3.576	4.500	R
J05022553-6908009	1	3.562	4.500	R
J05324490-6652292	1	3.919	4.499	Y
J05303783-6824392	1	3.924	4.497	Y
J05005801-6813494	1	3.535	4.497	R
J04560615-6701088	1	3.570	4.497	R
J05360378-6901300	1	3.861	4.493	Y
J05313311-6706213	1	3.607	4.493	R
J04520951-7030191	1	3.900	4.487	Y
J04563284-6827137	1	3.579	4.487	R
J05401986-7029094	1	3.566	4.485	R
J05064796-7002134	1	3.707	4.484	Y
J05302968-6637217	1	3.801	4.480	Y
J05313082-6953432	1	3.592	4.480	R
J04522777-6643580	1	3.585	4.480	R
J05294513-6629132	1	3.594	4.479	R
J05380659-6903452	1	3.571	4.476	R
J05334489-6700006	1	3.888	4.475	Y
J05005516-6638143	1	3.821	4.475	Y
J05305508-6658056	1	3.572	4.474	R
J05280139-6620336	1	3.586	4.472	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04562741-6756006	1	3.839	4.471	Y
J05262397-6958228	1	3.549	4.471	R
J05283205-6912030	1	3.881	4.468	Y
J05300742-7153425	1	3.591	4.468	R
J05342422-6900310	1	3.862	4.466	Y
J05191579-6856039	1	3.615	4.466	Y
J05411804-6929541	1	3.955	4.463	Y
J05172733-6902538	2	3.612	4.461	Y
J04583662-6850322	1	3.903	4.461	Y
J05183934-6941430	1	3.585	4.459	R
J05032232-6622112	1	3.770	4.457	Y
J05275939-6848400	1	3.798	4.453	Y
J05540631-6937237	1	3.563	4.453	R
J04563637-6933273	1	3.884	4.452	Y
J04502235-6856108	1	3.574	4.452	R
J05002888-6723068	1	3.588	4.451	R
J05383886-6908144	1	3.720	4.450	Y
J05072009-7027152	1	3.819	4.450	Y
J05103532-7118451	1	3.569	4.450	R
J05274083-6619509	1	3.593	4.449	R
J05320373-6639287	1	3.882	4.448	Y
J05354942-6642017	1	3.762	4.447	Y
J05305214-6841374	1	3.887	4.447	Y
J05330324-6909160	1	3.569	4.447	R
J04490818-6906324	1	3.583	4.447	R
J05205789-6745295	1	3.586	4.444	R
J05040743-6626429	1	3.592	4.443	R
J04525615-7013287	1	3.575	4.443	R
J05052195-6707148	1	3.845	4.441	Y
J05034470-6906016	1	3.922	4.441	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05312180-7057254	1	3.666	4.438	Y
J05055395-6810505	1	3.812	4.438	Y
J04555272-7052060	1	3.567	4.438	R
J04545989-6934437	1	3.557	4.438	R
J05452835-6741195	1	3.889	4.437	Y
J05074534-6909446	1	3.623	4.437	Y
J04531726-6952043	2	3.722	4.436	Y
J05305168-6701414	1	3.767	4.435	Y
J04562749-6922466	1	3.784	4.435	Y
J05424212-7009044	1	3.608	4.435	R
J05325816-6733214	1	3.892	4.434	Y
J05022269-6846078	1	3.589	4.434	R
J05220398-6717101	1	3.597	4.433	R
J05530181-6959465	1	3.623	4.432	Y
J05433400-6849157	1	3.591	4.432	R
J05103282-6707380	1	3.576	4.432	R
J04532533-6855003	1	3.644	4.430	Y
J05470489-6743397	1	3.593	4.430	R
J04483920-6844326	1	3.591	4.430	R
J05343847-6659034	1	3.614	4.429	Y
J05455459-6758209	1	3.589	4.429	R
J05321853-7045089	1	3.582	4.428	R
J05032398-6855320	1	3.882	4.426	Y
J05265532-6853513	2	3.690	4.424	Y
J05241374-6625290	1	3.854	4.421	Y
J05092015-7027269	1	3.711	4.420	Y
J04555280-6942224	1	3.911	4.420	Y
J05333927-6743304	1	3.521	4.420	R
J05331961-6705219	1	3.593	4.420	R
J05045214-6903464	1	3.760	4.419	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05270448-6959278	1	3.554	4.419	R
J05042497-6833113	1	3.580	4.419	R
J05001230-6812143	1	3.584	4.418	R
J04544146-6926117	1	3.865	4.417	Y
J05274464-6947514	1	3.580	4.417	R
J05233761-7004496	1	3.544	4.417	R
J05030897-6626555	1	3.828	4.415	Y
J05323576-7126498	1	3.569	4.414	R
J05334034-6906579	1	3.902	4.412	Y
J05013273-6813144	1	3.884	4.412	Y
J04553832-6708080	1	3.586	4.411	R
J04525647-6920342	1	3.579	4.411	R
J05013419-6612519	1	3.616	4.409	Y
J05362160-6920560	1	3.585	4.409	R
J04542376-7054057	1	3.725	4.407	Y
J05254378-6628450	1	3.584	4.407	R
J05302595-7039207	1	3.588	4.406	R
J04533718-6943071	1	3.837	4.405	Y
J05364678-6945333	1	3.545	4.404	R
J05031592-6637298	1	3.829	4.403	Y
J05335906-6732157	1	3.863	4.402	Y
J05110487-7014366	1	3.748	4.402	Y
J05400533-6720151	1	3.592	4.402	R
J05301995-6722165	1	3.595	4.402	R
J04464044-6711098	1	3.575	4.402	R
J05244404-6623168	1	3.601	4.401	R
J05344003-6730095	1	3.833	4.400	Y
J04543882-6857363	1	3.578	4.400	R
J05223394-6754323	1	3.571	4.399	R
J04543809-6650338	1	3.560	4.399	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05232350-6939238	1	3.869	4.398	Y
J05395239-6909412	1	3.538	4.398	R
J05204690-6938566	1	3.593	4.397	R
J05001220-7002504	1	3.582	4.397	R
J05380642-6708534	1	3.568	4.395	R
J05323813-6654182	1	3.590	4.395	R
J04500765-7005236	1	3.570	4.395	R
J05300119-6956382	1	3.597	4.394	R
J05181682-6931563	1	3.574	4.394	R
J04525337-6705425	1	3.855	4.393	Y
J04565840-7017449	1	3.571	4.393	R
J04515432-6901266	1	3.866	4.392	Y
J05045123-6905062	1	3.541	4.391	R
J05421458-6830462	1	3.774	4.390	Y
J04501005-6909419	1	3.542	4.390	R
J04584111-7011366	1	3.609	4.389	R
J04523016-6939416	1	3.570	4.387	R
J04524033-6933533	1	3.578	4.386	R
J05370262-6938350	1	3.862	4.385	Y
J04560217-6945146	1	3.578	4.385	R
J05235715-7149267	1	3.612	4.384	Y
J05351324-6914345	1	3.871	4.383	Y
J04574307-6956136	1	3.608	4.382	R
J05210363-6802539	1	3.848	4.381	Y
J04511357-6911410	1	3.874	4.381	Y
J05292834-6936250	1	3.595	4.380	R
J05071891-6825376	1	3.868	4.377	Y
J05424355-6813534	1	3.874	4.375	Y
J04565839-6939100	1	3.611	4.375	Y
J05401638-6659303	1	3.556	4.375	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05314126-6703516	1	3.600	4.375	R
J04565216-7003014	1	3.586	4.375	R
J05481146-7059547	1	3.574	4.373	R
J04565399-6933402	1	3.591	4.373	R
J05400109-6934527	1	3.806	4.370	Y
J05323122-7102280	1	3.614	4.370	Y
J05430109-6842545	1	3.597	4.370	R
J05284670-6925539	1	3.761	4.369	Y
J05305462-6813076	1	3.550	4.369	R
J05133131-6627360	1	3.597	4.369	R
J05033083-7025346	1	3.585	4.367	R
J04542275-7048207	1	3.564	4.367	R
J05433242-6818518	1	3.858	4.366	Y
J04491348-6947132	1	3.636	4.366	Y
J04513470-6924462	1	3.553	4.366	R
J04482407-7104012	1	3.594	4.366	R
J05044043-6751180	1	3.570	4.365	R
J05014670-6906540	1	3.547	4.362	R
J05440175-6738003	1	3.847	4.361	Y
J05500007-7002441	1	3.558	4.360	R
J04534989-6934331	1	3.579	4.360	R
J05353531-6705063	1	3.600	4.359	R
J04544683-6707046	1	3.590	4.359	R
J05325463-6903365	1	3.542	4.358	R
J05020436-6833059	1	3.581	4.358	R
J05041356-6625585	1	3.638	4.356	Y
J05295481-6951494	1	3.573	4.356	R
J05181396-6856100	1	3.565	4.356	R
J05104449-6947509	1	3.560	4.355	R
J05291137-6628091	1	3.590	4.353	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04434290-6746555	1	3.591	4.351	R
J05392024-6906263	1	3.833	4.350	Y
J04581080-6956589	1	3.678	4.349	Y
J04563785-6925305	1	3.553	4.349	R
J05060887-7115260	1	3.677	4.348	Y
J04550559-6935248	1	3.580	4.347	R
J05014071-7054588	1	3.612	4.346	Y
J04481009-6945517	1	3.599	4.344	R
J05061651-6822068	1	3.626	4.341	Y
J05331735-6732061	1	3.589	4.341	R
J04592530-6744128	1	3.572	4.336	R
J04554634-6957553	1	3.594	4.335	R
J05485505-6924253	1	3.594	4.334	R
J05225891-6713465	1	3.597	4.334	R
J05092686-7010199	1	3.584	4.334	R
J05431491-6723166	1	3.569	4.333	R
J05263981-6824209	1	3.598	4.332	R
J05111185-6703592	1	3.574	4.332	R
J05241617-6939310	1	3.629	4.327	Y
J05175106-6824346	1	3.598	4.327	R
J05045392-6801585	1	3.608	4.325	R
J05452625-6743557	1	3.564	4.324	R
J05100840-7029524	1	3.597	4.323	R
J05210134-7058459	1	3.592	4.322	R
J05133222-6737429	1	3.549	4.321	R
J04535025-6648516	1	3.584	4.321	R
J04573451-6745233	1	3.583	4.318	R
J04455346-6733102	1	3.573	4.318	R
J04481981-6948502	1	3.604	4.315	R
J05330874-7027263	1	3.597	4.312	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05293011-6630147	1	3.609	4.311	R
J05391266-6854382	1	3.558	4.310	R
J05004662-6904040	1	3.540	4.309	R
J05303293-6633222	1	3.571	4.304	R
J05293147-6939172	1	3.570	4.304	R
J05005881-6805092	1	3.571	4.304	R
J04585863-6749144	1	3.597	4.304	R
J05070859-6830205	1	3.574	4.303	R
J04515437-6839204	1	3.580	4.300	R
J04513350-7042402	1	3.582	4.300	R
J04555566-6838560	1	3.561	4.298	R
J05383892-6727394	1	3.590	4.297	R
J05261582-6622511	1	3.589	4.297	R
J05083180-6853372	1	3.575	4.297	R
J04563939-7126556	1	3.546	4.297	R
J05045166-6902283	1	3.585	4.296	R
J05043378-6806235	1	3.590	4.295	R
J04500969-7004101	1	3.607	4.295	R
J05092360-6910437	1	3.574	4.292	R
J04592823-7159142	1	3.575	4.292	R
J04480007-6849112	1	3.566	4.292	R
J04581103-6651180	1	3.578	4.288	R
J05214729-6812312	1	3.602	4.287	R
J05214598-6856400	1	3.564	4.286	R
J05335736-7050132	1	3.589	4.285	R
J04544025-6917340	1	3.562	4.284	R
J04544923-6931302	1	3.590	4.283	R
J05342672-6835265	1	3.600	4.282	R
J05321389-6907233	1	3.581	4.282	R
J05040897-6850213	1	3.587	4.281	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04510536-6958333	1	3.583	4.280	R
J05091155-7210368	1	3.567	4.278	R
J05233177-6952307	1	3.561	4.277	R
J04555927-6953051	1	3.602	4.277	R
J05101374-6927566	1	3.598	4.276	R
J05091175-7123095	1	3.579	4.276	R
J04512736-6849199	1	3.601	4.275	R
J05374706-6934464	1	3.552	4.274	R
J05161312-6615578	1	3.561	4.273	R
J05060145-7034082	1	3.589	4.273	R
J05260853-6839142	1	3.585	4.268	R
J05113830-7200570	1	3.595	4.266	R
J05054793-6829120	1	3.582	4.266	R
J05030232-6847203	1	3.601	4.266	R
J05182041-6633176	1	3.551	4.265	R
J05263040-6948033	1	3.569	4.260	R
J05121391-6634305	1	3.560	4.260	R
J05003845-6830524	1	3.565	4.259	R
J04563006-6656235	1	3.585	4.259	R
J05312586-6946374	1	3.594	4.254	R
J05211986-6855440	1	3.561	4.253	R
J05400700-6911415	1	3.528	4.251	R
J05214366-7146116	1	3.599	4.247	R
J04525131-6959156	1	3.570	4.245	R
J05025417-6608323	1	3.596	4.244	R
J05084415-6901596	1	3.599	4.243	R
J05092423-6847238	1	3.550	4.241	R
J04572801-6830460	1	3.579	4.241	R
J05254339-6631134	1	3.566	4.240	R
J04510944-6956146	1	3.592	4.240	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J04544724-6947166	1	3.582	4.238	R
J04545798-6945153	1	3.551	4.236	R
J04593827-6757121	1	3.597	4.231	R
J04595456-6811236	1	3.591	4.228	R
J05364101-6914064	1	3.434	4.226	R
J05032192-6629492	1	3.588	4.226	R
J05283066-6908528	1	3.588	4.225	R
J05244325-6720022	1	3.581	4.225	R
J05033732-6617561	1	3.600	4.219	R
J05254036-7015526	1	3.551	4.217	R
J05460978-7126310	1	3.555	4.216	R
J04541386-6708122	1	3.591	4.215	R
J05243020-6829071	1	3.554	4.214	R
J04580012-6855520	1	3.533	4.212	R
J05455613-6747570	1	3.597	4.210	R
J04562085-6930069	1	3.597	4.209	R
J05284887-6911340	1	3.546	4.207	R
J05370482-7054072	1	3.595	4.204	R
J05003501-6632425	1	3.546	4.203	R
J05255546-6631494	1	3.586	4.201	R
J05033384-7040398	1	3.545	4.201	R
J05173480-6901158	1	3.562	4.198	R
J04503588-6909264	1	3.544	4.198	R
J05290421-6940150	1	3.568	4.196	R
J05212350-6816333	1	3.583	4.196	R
J05021687-6805241	1	3.579	4.195	R
J05451894-6800426	1	3.595	4.192	R
J05162088-6643516	1	3.537	4.191	R
J05342818-7017132	1	3.592	4.188	R
J05042369-6750211	1	3.564	4.188	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05471317-7054159	1	3.549	4.185	R
J05344051-7034280	1	3.547	4.185	R
J05301201-6957482	1	3.556	4.185	R
J04591629-6903185	1	3.548	4.183	R
J04561574-6857373	1	3.550	4.183	R
J05414819-7007301	1	3.548	4.177	R
J05073072-6847347	1	3.582	4.177	R
J05163894-6748375	1	3.583	4.176	R
J05385303-6705496	1	3.538	4.175	R
J05475266-7030372	1	3.539	4.174	R
J05380376-7157540	1	3.553	4.174	R
J04532345-7008116	1	3.569	4.174	R
J05444309-7024365	1	3.548	4.172	R
J05052587-6819572	1	3.588	4.171	R
J05112421-6740520	1	3.558	4.168	R
J04591827-7023548	1	3.578	4.163	R
J05320519-7139383	1	3.551	4.162	R
J04545858-6652380	1	3.572	4.160	R
J05353453-6905060	1	3.529	4.158	R
J05405628-6853465	1	3.556	4.156	R
J05524867-6938159	1	3.557	4.154	R
J05003265-7105181	1	3.571	4.152	R
J05332918-7057158	1	3.552	4.150	R
J05122461-6857207	1	3.528	4.148	R
J05410178-6724373	1	3.567	4.147	R
J05020565-6708169	1	3.545	4.146	R
J05481398-6952301	1	3.481	4.145	R
J05191245-7119100	1	3.551	4.145	R
J04540821-6839492	1	3.545	4.144	R
J05374793-6941547	1	3.540	4.142	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05400284-6810249	1	3.548	4.141	R
J05241700-6824299	1	3.560	4.141	R
J05511985-6951518	1	3.561	4.140	R
J05122446-7035421	1	3.534	4.139	R
J05380220-6659404	1	3.552	4.138	R
J04511318-6857400	1	3.525	4.138	R
J05211647-6808538	1	3.568	4.137	R
J05063691-6816455	1	3.572	4.135	R
J05231206-7004436	1	3.532	4.133	R
J05111106-7037045	1	3.562	4.131	R
J05315664-7046093	1	3.560	4.127	R
J05000690-7003520	1	3.552	4.127	R
J05040946-6908012	1	3.522	4.124	R
J04541290-6824279	1	3.553	4.123	R
J05281283-6856109	1	3.560	4.120	R
J05220568-6735425	1	3.564	4.120	R
J05060929-6906563	1	3.557	4.113	R
J04553293-6703405	1	3.531	4.110	R
J05060631-6724561	1	3.555	4.107	R
J05123041-6742509	1	3.510	4.102	R
J05482661-7009101	1	3.524	4.101	R
J05483574-7029282	1	3.537	4.098	R
J04503768-6934584	1	3.545	4.098	R
J05201774-6820376	1	3.509	4.095	R
J05065284-6841123	1	3.560	4.095	R
J05400798-7009025	1	3.528	4.094	R
J05022813-6858598	1	3.546	4.093	R
J05391627-6820094	1	3.539	4.092	R
J05053128-6912404	1	3.554	4.090	R
J05453132-7127168	1	3.551	4.089	R

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05493359-7039593	1	3.554	4.088	R
J05025775-6724525	1	3.535	4.085	R
J05073653-6907326	1	3.552	4.080	R
J05281091-7011124	1	3.527	4.078	R
J04554224-6843171	1	3.537	4.072	R
J05305451-7033025	1	3.538	4.070	R
J05094920-6912449	1	3.540	4.064	R
J05124636-7034298	1	3.541	4.054	R
J05285263-6929154	1	3.540	4.046	R
J05082836-6916513	1	3.523	4.043	R
J05372967-6705336	1	3.532	4.037	R
J05212379-6857363	1	3.528	4.028	R
J05361426-6940573	1	3.522	4.024	R
J05374588-6957022	1	3.518	4.020	R
J05325544-6815484	1	3.467	4.007	R
J05091452-6829489	1	3.456	3.896	R
J05365139-6913202	1	3.452	3.894	R
J05121707-6719262	1	4.051	3.269	Y
J05384249-6923091	1	4.059	3.152	Y
J05213756-6706141	1	4.065	3.102	Y
J05102138-6825171	1	4.049	3.062	Y
J05312793-6724442	1	4.045	2.990	Y
J05365465-6638224	1	4.049	2.966	Y
J05320077-6720230	1	4.055	2.920	Y
J05305398-6653154	1	4.057	2.915	Y
J05380127-6922140	1	4.053	2.849	Y
J05361643-6931270	1	4.057	2.849	Y
J05345771-6943542	1	4.055	2.846	Y
J05314111-7042524	1	4.055	2.836	Y
J05484964-7003579	1	4.043	2.822	Y

Table 4—Continued

2MASS	Category	T_{eff}	$\log (L/L_{\odot})$	Color
J05190484-6941055	1	4.049	2.817	Y
J05312849-6852596	1	4.068	2.816	Y
J05314410-6700101	1	4.053	2.813	Y
J05093397-6824413	1	4.049	2.812	Y
J05305231-6649594	1	4.047	2.808	Y
J05261498-6640023	1	4.051	2.796	Y
J05393751-6721573	1	4.047	2.757	Y
J05055405-6840171	1	4.063	2.743	Y
J05353846-6856490	1	4.055	2.741	Y
J05041613-6707257	1	4.055	2.720	Y
J04540940-6937189	1	4.063	2.718	Y
J05293404-6854147	1	4.049	2.697	Y
J05330794-6731593	1	4.068	2.690	Y

Table 5. Reddest Confirmed LMC Members in Our Sample

2MASS	K	$J - K$	V^a	$V - K$	[M2002] ^b	$10\mu\text{m}^c$	Type ^d	Variability ^e	Other ID
J05364101-6914064	9.30	1.68	15.6 ^f	6.3	...	...	...
J05365139-6913202	10.21	1.62	16.36	6.1	166719	...	...
J05091452-6829489	10.22	1.61	16.54 ^g	6.3	...	...	...
J05325544-6815484	10.00	1.56	15.54	5.5	155787	...	...
J05253102-6616566	7.62	1.54	14.1 ^f	6.5	...	IMA	...		
J05481398-6952301	9.73	1.51	...	...	...	...	...
J05261135-6612111	7.88	1.50	14.3 ^h	6.4	...	IMA	M3	slow var (ASAS)	WOH S 281
J05381601-6910112	7.87	1.44	13.99	6.1	170452	MA	M4.5/5I	Z Dor, slow	HTR 6
J05371351-6908345	8.29	1.43	14.17	5.9	167727	MA	...		
J05380665-6917296	7.91	1.43	14.60	6.7	170079	MA	M3I		
J05244988-6628464	8.45	1.42	14.4 ^f	5.9	...	IMA	...		
J05405336-6945248	8.89	1.41	14.93 ^g	6.0	...	...	...
J05201774-6820376	10.00	1.40	15.74 ^g	5.7	...	...	...
J05123041-6742509	9.99	1.39	15.95 ^g	6.0	...	...	C	173	LMC-BM 18-10
J05374588-6957022	10.24	1.36	16.57 ^g	6.3	...	...	...	127	
J05383452-6934396	8.43	1.36	14.3 ^h	5.9	...	MA	...		
J05282092-6903254	8.97	1.35	14.05	5.1	141055	...	...
J05333927-6743304	9.26	1.35	14.49	5.2	158053	...	...
J05082836-6916513	10.21	1.34	15.91	5.7	75666	...	...
J05361426-6940573	10.25	1.34	16.34 ^g	6.1	...	...	...	1357? ⁱ	
J05040946-6908012	10.00	1.34	15.97	6.0	62317	...	...	267?	
J04511318-6857400	9.98	1.33	16.15 ^g	6.2	...	...	...
J05482661-7009101	10.07	1.33	15.85 ^g	5.8	...	...	...
J05122461-6857207	9.97	1.32	16.92	6.9	90431	...	...	165	
J05400798-7009025	10.11	1.32	15.88 ^g	5.8	...	...	...
J05212379-6857363	10.27	1.32	14.68	4.4	123498	A	...		
J05400700-6911415	9.72	1.32	14.92	5.2	174306	...	...
J05281091-7011124	10.14	1.32	16.46 ^g	6.3	...	...	...	152	

Table 5—Continued

2MASS	K	$J - K$	V^a	$V - K$	[M2002] ^b	$10\mu\text{m}^c$	Type ^d	Variability ^e	Other ID
J04553293-6703405	10.09	1.31	15.46 ^g	5.4	...	...	...	153	
J04552165-6947167	7.62	1.31	13.4 ^f	5.8	...	IMA	...		
J05353453-6905060	9.96	1.31	15.10	5.1	163066	...	...
J05421968-6916207	8.94	1.31	14.44	5.5	177645	...	...
J05231206-7004436	10.03	1.30	16.75 ^g	6.7	...	...	...
J05372967-6705336	10.28	1.30	15.91	5.6	168432	...	...
J04580012-6855520	9.84	1.30	16.02	6.2	36633	...	...
J05122446-7035421	10.03	1.29	14.95	4.9	90419	...	...
J05005801-6813494	9.14	1.29	14.21	5.1	49492	...	...
J05025775-6724525	10.17	1.29	15.71	5.5	57678	...	M4S	123	WOH G 143
J05402444-6921169	7.85	1.29	13.13	5.3	174714	MA	M1.5I	~3000 (ASAS)	
J04492676-6845059	8.12	1.29	13.30	5.2	5429	MA	...		SP77 22-10
J05162088-6643516	9.92	1.28	15.7 ^f	5.8	...	...	M5S		WOH G 251
J04554224-6843171	10.22	1.28	16.05 ^g	5.8	...	...	...
J05483574-7029282	10.15	1.28	16.16 ^g	6.0	...	...	...
J05395239-6909412	9.41	1.28	14.23	4.8	173997	...	...
J04525644-6925460	8.81	1.27	14.46	5.7	15268	...	...
J05385303-6705496	9.97	1.27	15.21	5.2	172027	...	...
J05305451-7033025	10.23	1.27	15.85 ^g	5.6	...	...	...
J05475266-7030372	9.98	1.27	16.12 ^g	6.1	...	...	...
J05391627-6820094	10.18	1.27	15.50	5.3	172970	...	...	126	
J05285263-6929154	10.30	1.27	16.25 ^g	6.0	...	...	...	145	
J05094920-6912449	10.26	1.26	16.07	5.8	80984	...	...	1214 ⁱ	
J05004662-6904040	9.65	1.26	15.04	5.4	48690	...	...
J05325463-6903365	9.53	1.26	14.44	4.9	155741	...	...
J05045123-6905062	9.44	1.26	14.72	5.3	64544	...	...
J05124636-7034298	10.29	1.26	15.87	5.6	91486	...	...
J04501005-6909419	9.45	1.26	14.61	5.2	7071	...	...

Table 5—Continued

2MASS	K	$J - K$	V^a	$V - K$	[M2002] ^b	$10\mu\text{m}^c$	Type ^d	Variability ^e	Other ID
J05374793-6941547	10.06	1.26	15.68 ^g	5.6	...	...	...
J04503588-6909264	9.94	1.25	14.67	4.7	8255	...	...
J05233761-7004496	9.40	1.25	14.5 ^f	5.1	...	...	...
J05353280-6904191	8.20	1.25	13.07	4.9	163007	MA	K7I	~2000 (ASAS)	
J05410506-6904423	7.97	1.25	12.74	4.8	175709	A	M0I		SP77 54-36
J05373682-6929234	8.21	1.24	14.08	5.9	168757	MA	M3/4I	~2000 (ASAS)	
J05022813-6858598	10.22	1.24	14.85	4.6	55611	...	...
J05364678-6945333	9.43	1.24	14.2 ^f	4.8	...	...	...
J04540821-6839492	10.08	1.24	15.34	5.3	19466	...	...
J04563939-7126556	9.71	1.24	15.3 ^f	5.6	...	...	...
J04503768-6934584	10.20	1.24	15.48	5.3	8351	...	...
J05020565-6708169	10.08	1.24	15.67	5.6	54109	...	...
J05033384-7040398	9.94	1.24	15.15	5.2	59993	...	...	84	
J05003501-6632425	9.94	1.24	15.8 ^f	5.9	...	...	...
J05214834-6757515	8.37	1.24	...	...	...	MA	...	slow ^j (ASAS)	SP77 46-5a
J05284887-6911340	9.94	1.24	15.16	5.2	142358	...	...
J05133222-6737429	9.66	1.23	14.7 ^f	5.0	...	...	...
J05293537-6830455	8.48	1.23	13.70	5.2	144637	A	...		
J05400284-6810249	10.11	1.23	15.3 ^f	5.2	...	...	...
J04591629-6903185	10.00	1.23	15.92 ^g	5.9	...	...	...
J05344051-7034280	9.99	1.23	15.13 ^g	5.1	...	...	...
J05414819-7007301	10.02	1.23	15.48 ^g	5.5	...	...	...
J04541753-6712001	8.88	1.23	14.70	5.8	20060	...	...
J05300160-7157180	8.84	1.23	13.8 ^h	5.0	...	...	...
J05375464-6909032	9.07	1.23	14.01	4.9	169566	...	M		[ST92] 1- 88
J05014670-6906540	9.55	1.23	14.94	5.4	52800	...	...
J05394613-6919282	8.47	1.23	13.60	5.1	173854	A	M1I	slow, RS Dor	
J05444309-7024365	10.03	1.23	15.59 ^g	5.6	...	...	...

Table 5—Continued

2MASS	K	$J - K$	V^a	$V - K$	[M2002] ^b	$10\mu\text{m}^c$	Type ^d	Variability ^e	Other ID
J05092423-6847238	9.87	1.22	14.74	4.9	79397	...	...	80	
J05144972-6727197	7.42	1.22	...	...	...	IMA	M3I	806 GCVS ^k	SP77 37-35
J04561574-6857373	10.02	1.22	15.07	5.1	28190	...	...
J05182041-6633176	9.82	1.22	14.9 ^f	5.1	...	...	...
J05334455-6724168	8.49	1.22	13.35	4.9	158317	IMA	M1I		
J05262397-6958228	9.29	1.22	14.9 ^f	5.6	...	...	...
J05471317-7054159	10.01	1.22	15.46 ^g	5.5	...	...	...	119	
J05191245-7119100	10.12	1.22	16.1 ^f	6.0	...	...	...
J05193112-6853413	8.93	1.22	13.81	4.9	115315	...	...
J05305462-6813076	9.56	1.22	14.73	5.2	149177	...	M3S		WOH S 362
J05320519-7139383	10.07	1.22	15.72 ^g	5.6	...	...	...
J05453132-7127168	10.26	1.21	15.76 ^g	5.5	...	...	...
J04541290-6824279	10.19	1.21	15.25	5.1	19753	...	...
J05332918-7057158	10.11	1.21	15.13 ^g	5.0	...	...	...
J04545798-6945153	9.89	1.21	14.97	5.1	22754	...	...
J04563785-6925305	9.62	1.21	14.14	4.5	29965	...	...
J05254036-7015526	9.94	1.21	15.32 ^g	5.4	...	...	...	123	
J05073653-6907326	10.28	1.21	15.69	5.4	72935	...	...	113?	
J05000690-7003520	10.17	1.21	15.00	4.8	46056	...	...
J05274747-6913205	7.60	1.21	12.68	5.1	139413	IMA	M3I	~2500 (ASAS)	SP77 47-14
J05380220-6659404	10.15	1.21	16.5 ^f	6.4	...	...	...
J05374706-6934464	9.80	1.21	15.38 ^g	5.6	...	...	...
J05360792-6912330	8.84	1.21	13.60	4.8	164579	...	G8/K0		[ST92] 2- 58
J05351891-6702196	8.34	1.20	13.2 ^h	4.9	...	IMA	M2I	404 GCVS	HV 2700
J05380376-7157540	10.06	1.20	15.40 ^g	5.3	...	...	...
J05053128-6912404	10.27	1.20	15.35	5.1	66668	...	...
J04513470-6924462	9.58	1.20	14.59	5.0	11059	...	...
J05243020-6829071	9.96	1.20	15.01	5.0	132773	...	...

Table 5—Continued

2MASS	K	$J - K$	V^a	$V - K$	[M2002] ^b	$10\mu\text{m}^c$	Type ^d	Variability ^e	Other ID
J04512113-6856516	9.09	1.20	13.99	4.9	10432	...	...
J05355030-6736349	8.26	1.20	13.20	4.9	163738	A	...	~3000 (ASAS)	
J04494680-6923138	9.16	1.20	14.15	5.0	6106	...	...
J05260034-7135488	7.88	1.20	12.9 ^h	5.0	...	A	em?	irreg ASAS	LHA 120-S 164
J05493359-7039593	10.28	1.20	15.74 ^g	5.5	...	...	...

^a V magnitude is from Massey 2002 unless otherwise noted.

^bCatalog identification from Massey 2002.

^cDetection at $10\mu\text{m}$ by IRAS (“I”), MSX (“M”), and/or AKARI (“A”).

^dSpectral type repeated from Table 1; see references there.

^eVariability. These are based primarily upon the OGLE data base, but the OGLE period (in days) is quoted only if the light curve appeared reasonably smooth. The CGVS and ASAS were used as indicated.

^f V magnitude from GSC-2.3 based upon a short- V plate taken with the UK Schmidt, and may be slightly brighter than standard V .

^f V magnitude from OGLE database.

^g V magnitude from ASAS-3.

^hShorter cycles superposed.

ⁱSlow variable of 0.7 mag range.

^jPeriod confirmed in ASAS database.

Table 6. Model Lifetimes of YSG Phase

Mass (M_{\odot})	Lifetimes (10^3 yr) ^a	
	S4	S0
12	147.8	6.3
15	71.8	91.4
20	68.4	50.2
25	17.9	48.8
32 ^b	84.5	173.4
40	29.9	21.1
85	0	3.0

^aS4 = models computed with an initial rotation of 40% of the critical breakup speed, S0 = models with no rotation.

^bThe $32M_{\odot}$ track represents the transition between a star ending as a RSG and blue-wards evolution. Therefore the lifetime is probably not characteristic of a models of slightly lower or higher masses.

Table 7. Relative Number of YSGs Compared with Model Predictions

Masses (M_{\odot})	S4 Models ^a					S0 Models ^a				
	Number		Ratios		Model	Number		Ratios		Model
	Class 1+2	Class 1	Class 1+2	Class 1		Class 1+2	Class 1	Class 1+2	Class 1	
12-15	25	24	1.00	1.00	1.00	77	74	1.00	1.00	1.00
15-20	13	13	0.52	0.54	0.58	19	19	0.25	0.26	1.32
20-25	8	7	0.32	0.29	0.20	10	9	0.13	0.12	0.51
(25-32) ^b	2	2	0.08	0.08	(0.19)	3	3	0.04	0.04	(0.92)
(32-40) ^b	1	1	0.04	0.03	(0.14)	2	2	0.03	0.03	(0.53)
25-40	3	3	0.12	0.12	0.15	5	5	0.06	0.07	0.48
>40	0	0	0.00	0.00	0.06	0	0	0.00	0.00	0.12

^aS4 = models computed with an initial rotation of 40% of the critical breakup speed, S0 = models with no rotation.

^bAs noted earlier, the $32M_{\odot}$ track represents the transition between a star ending as a RSG and blue-wards evolution. Therefore the lifetime is probably not characteristic of a models of slightly lower or higher masses. We therefore suspect these bins should be ignored in evaluating the success of the models.